

47

W-15-1

16092C35-5

CS: 16092

ID: C3 C5 W-15-1

Regular
Borrow

SUBBASE

WHERE REQUIRED STA. TO STA.	AMOUNT REQUIRED	AMOUNT AVAILABLE	SOILS SERIES	REMARKS
11,200+00 to 11,200+20	17,268 cy	250,000 cy	Kalkaska	PHOS. SE 1/4 of SE 1/4 Sec. 35, T36N R3W.
11,200+20 to 11,200+40	73,585 cy	175,000 cy	Wexford	PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+40
11,200+40 to 11,200+60	17,268 cy	100,000 cy	Kalkaska	PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+60
11,200+60 to 11,200+80	1,199 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+80
11,200+80 to 11,200+100	4,112 cy	70,000 cy	Kalkaska	PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+100
11,200+100 to 11,200+120	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+120
11,200+120 to 11,200+140	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+140
11,200+140 to 11,200+160	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+160
11,200+160 to 11,200+180	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+180
11,200+180 to 11,200+200	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+200
11,200+200 to 11,200+220	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+220
11,200+220 to 11,200+240	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+240
11,200+240 to 11,200+260	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+260
11,200+260 to 11,200+280	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+280
11,200+280 to 11,200+300	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+300
11,200+300 to 11,200+320	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+320
11,200+320 to 11,200+340	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+340
11,200+340 to 11,200+360	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+360
11,200+360 to 11,200+380	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+380
11,200+380 to 11,200+400	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+400
11,200+400 to 11,200+420	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+420
11,200+420 to 11,200+440	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+440
11,200+440 to 11,200+460	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+460
11,200+460 to 11,200+480	7,412 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+480
11,200+480 to 11,200+500	4,112 cy			PHOS. SE 1/4 of SE 1/4 of Sec. 25, T36N R3W. To Sta. 11,200+500

- Index of Sheets**
- 1 - Title Sheet
 - 2-2A - Typical Cross Sections
 - 3 - Notes and Special Provisions
 - 4-31 - Plans and Profiles
 - 32-34 - Mass Diagrams
 - 35 - Special Details
 - 36-38 - Quantity Sheets & 36A-33A
 - 39-41 - Sign Location Plans
 - 42-43 - Quantities - Signs & Supports

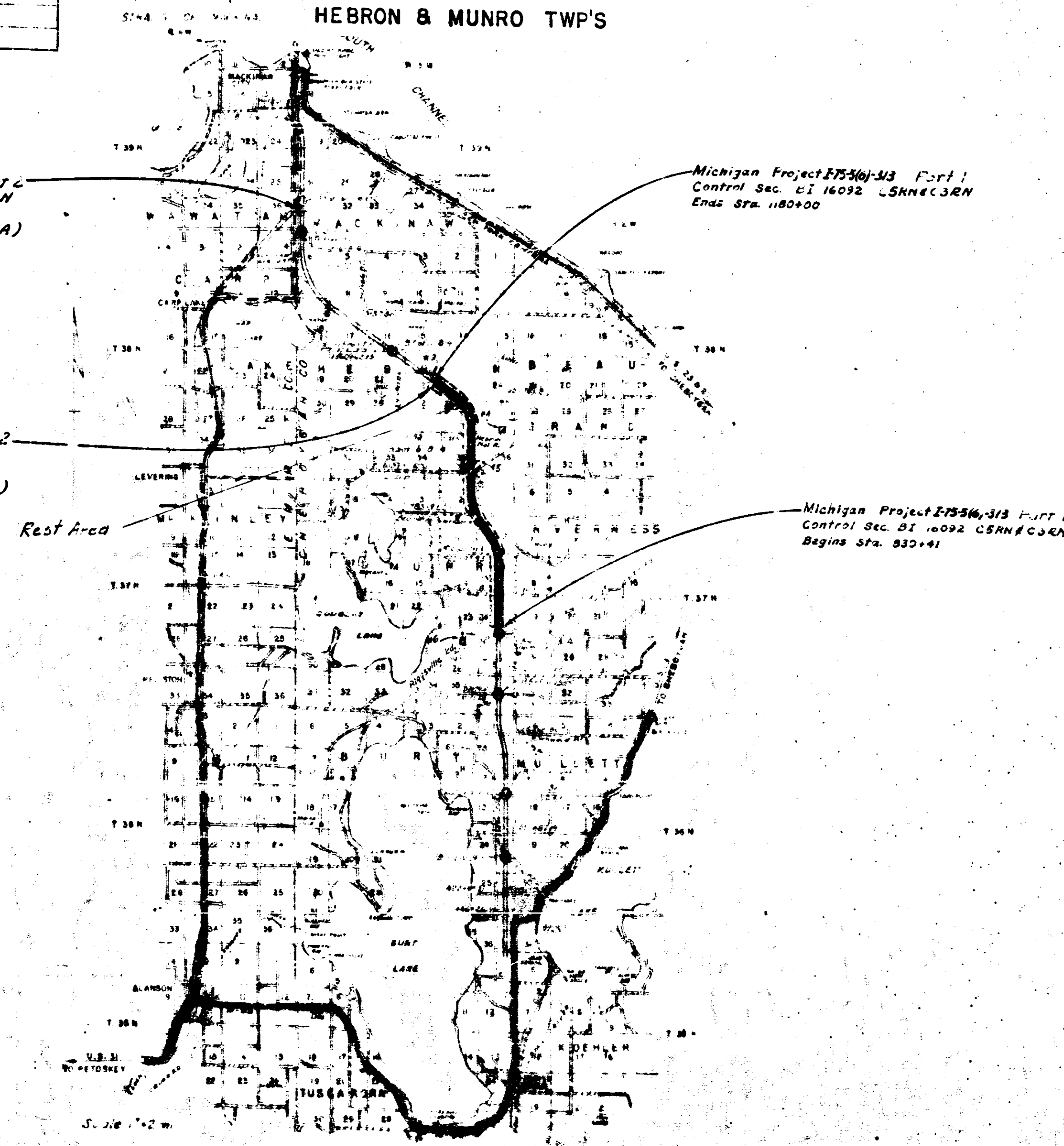
For Index to Bridge Plans See Sheet No. 101
For Signing Details See Sheets 32-41

STANDARD PLANS
None

PROPOSED PA	REMARKS
1. DRIVE	
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MICHIGAN
STATE HIGHWAY DEPARTMENT
JOHN C. MACKIE
STATE HIGHWAY COMMISSIONER

PLANS FOR PROPOSED
MICHIGAN PROJECT I-75-5(6)-313 PART 1
CONTROL SECTION BI 16092 C 5 RN & C 3 RN
INDIAN RIVER - MACKINAW CITY ROAD
CHEBOYGAN COUNTY
HEBRON & MUNRO TWP'S



Item No: 217 Part 1

CONTRACT: G4DS and 2@24' Conc. Pavt, 9' Unif.

DESIGN AND TRAFFIC DIVISIONS

APPROVED: [Signature] 3/16/72

OFFICE OF ENGINEERING AND CONSTRUCTION

APPROVED: [Signature] 3/16/72

STATE HIGHWAY DEPARTMENT APPROVAL

APPROVED: JOHN C. MACKIE, STATE HIGHWAY COMMISSIONER

BY: [Signature] DIRECTOR OF ENGINEERING

DEPARTMENT OF HIGHWAYS
BUREAU OF PUBLIC ROADS

W-15-1

16092 I-75-5(6)-313

700-1

(700-9)

TYPICAL CROSS-SECTIONS

For ditches, other than shown on this sheet,
see Standard Plan E-4-A-26D.

All unsodded slopes and ditches shall be mulched at the rate of 3 tons per acre and Seeded (Class 3 Seeding). Topsoil shall be removed and stockpiled as directed by the Engineer for use as Topsoil Surface.

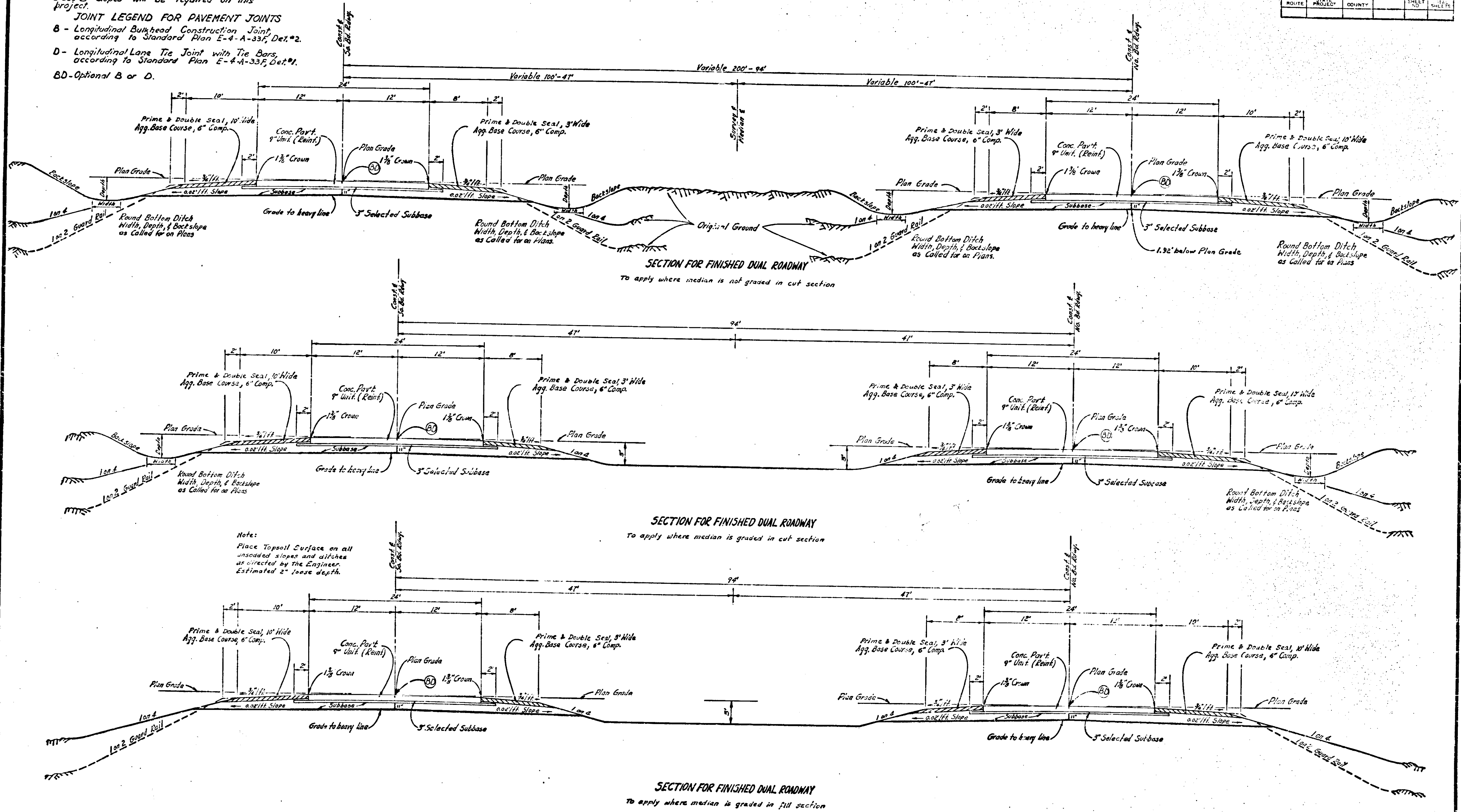
Class B Slopes will be required on this project.

JOINT LEGEND FOR PAVEMENT JOINTS

8 - Longitudinal Bulkhead Construction Joint, according to Standard Plan E-4-A-33F, Det. #2.

D - Longitudinal Lane Tie Joint with Tie Bars,
according to Standard Plan E-4-A-33F, Det. 91.

BD-Optional B or D.



Scale 1"=6'

MICROFILMED

B/P Div. NO	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	MICH	175-56-343			
ROUTE	STATE PROJECT	COUNTY	TWP	SHEET NO	TOTAL SHEETS
US-27	16092	CHEBOYGAN	WORTHEN	2	
B/P Div. NO	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	MICH				
ROUTE	STATE PROJECT	COUNTY		SHEET NO	TOTAL SHEETS

FILE NO. USE NO 350 STENCIL	W-15-1	STATE PROJECT 16092	FEDERAL PROJECT 175-361-53	SHEET NO 2
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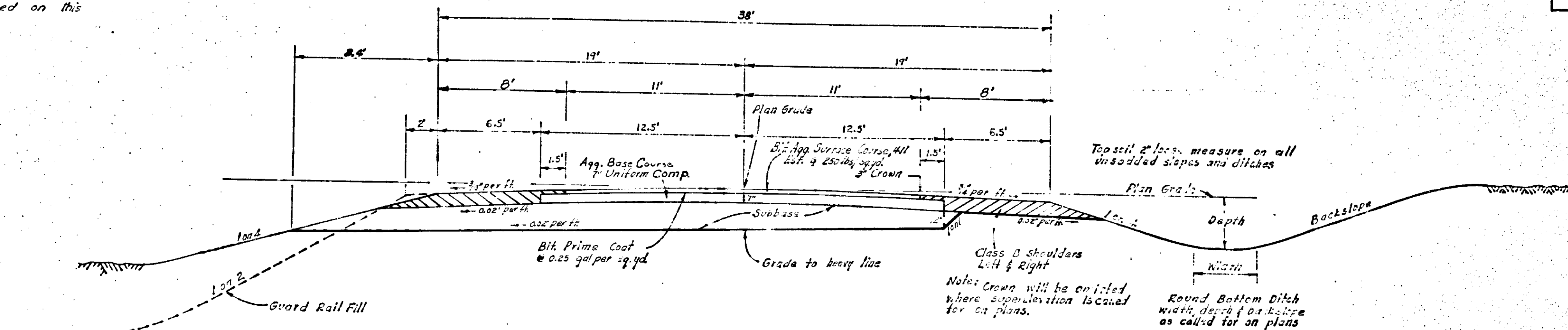
NOTES
For ditches other than shown on this sheet, see Standard Plan E-4-A-260.

All unsodded slopes and ditches shall be mulched at the rate of 3 tons per acre and Seeded (Class B Seeding). Topsoil shall be removed and stockpiled as directed by the Engineer for use as Topsoil Surface.

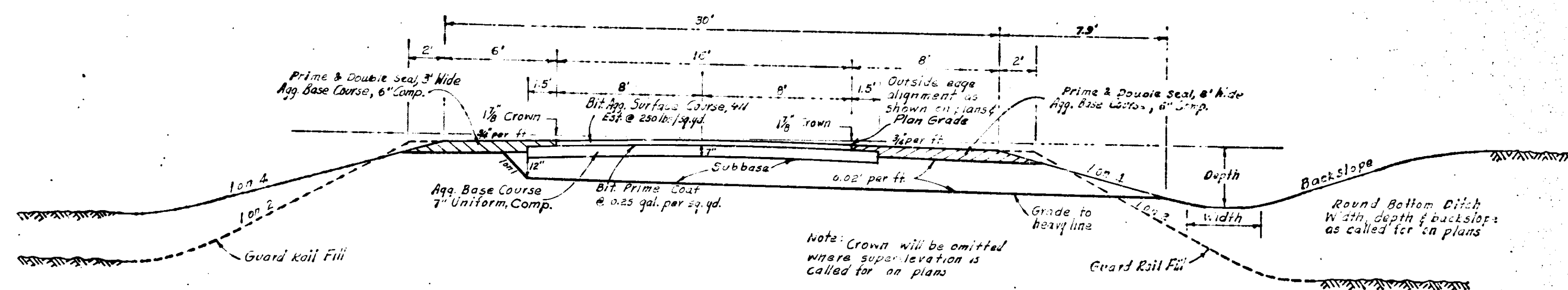
Class B Slopes will be required on this project.

TYPICAL CROSS-SECTIONS

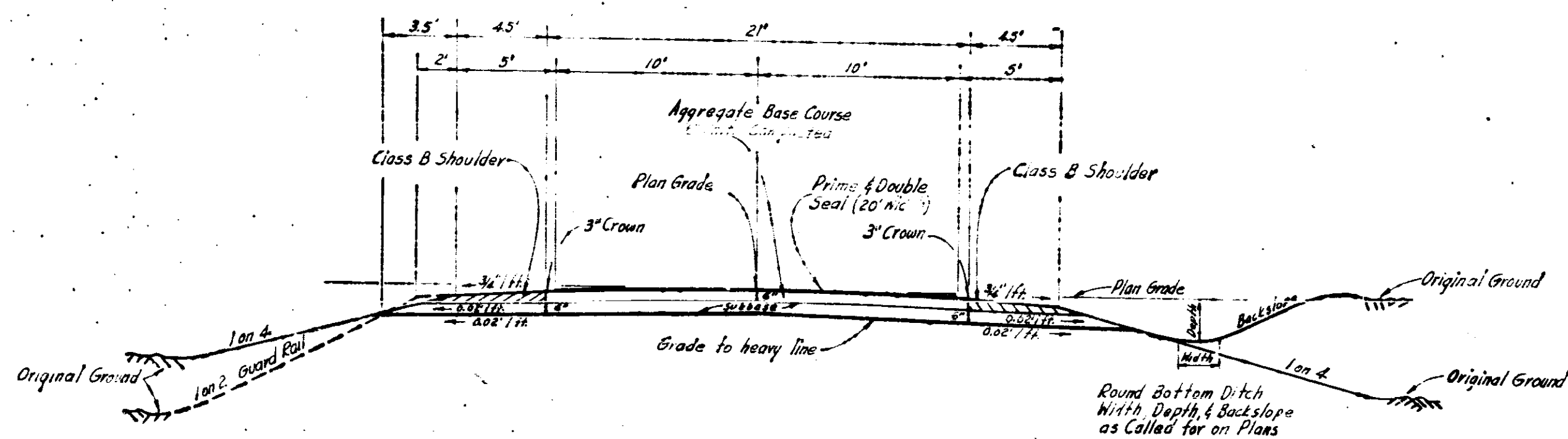
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WIS.	4	16092	2A	2A	2A
ROUTE	STATE	PROJECT	SECTION	SHEET NO.	TOTAL SHEETS
4	WIS.	16092	2A	2A	2A



SECTION FOR FINISHED ROAD
To Apply On Levering Road
Scale: 1"=4'



SECTION FOR FINISHED RAMPS
To Apply At Levering Road Interchange
Scale: 1"=4'

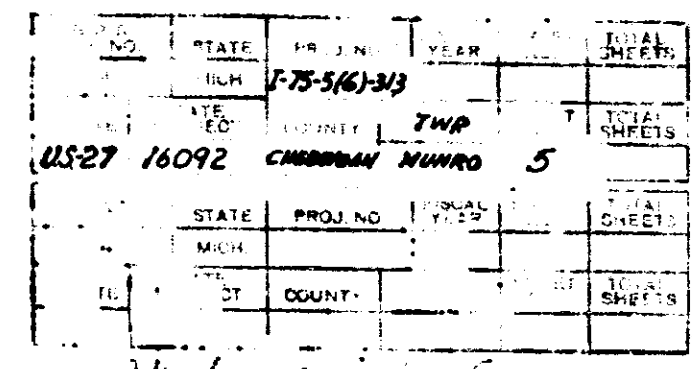
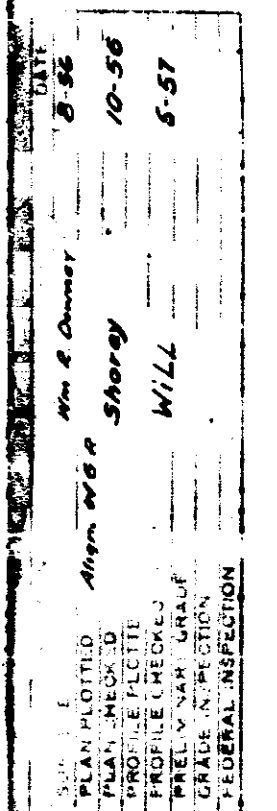


SECTION FOR FINISHED FRONTAGE ROAD
To Apply: Sta. 830+41 to Sta. 924+00 Lt.
Sta. 921+60 to Sta. 978+00 Rt.
Sta. 970+50 to Sta. 1103+00 Lt.
Sta. 1102+30 to Sta. 1170+60 Rt.
Sta. 1166+50 to Sta. 1180+00 Lt.
Scale: 1"=5'

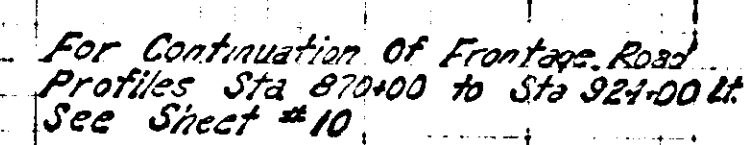
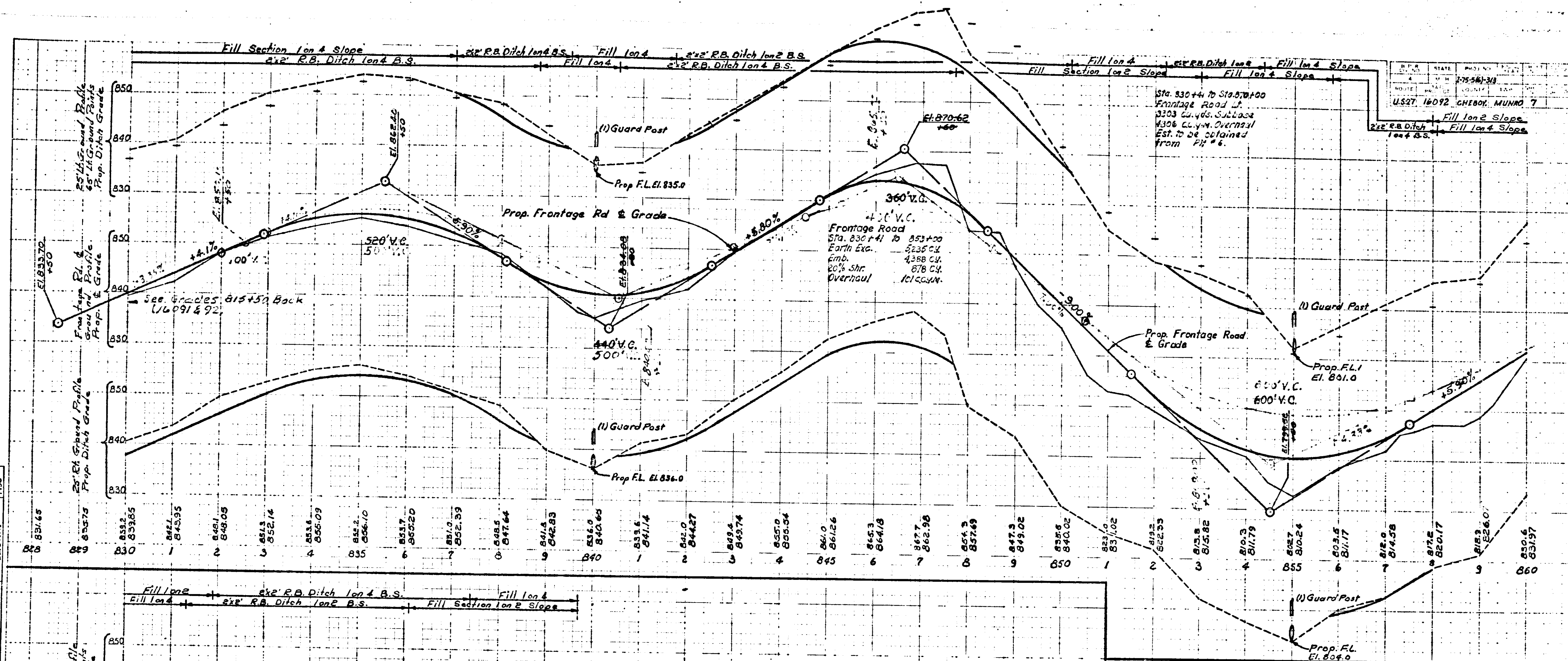
MICROFILMED

W-15-1

16092-03



W-15-1
16092 1-78-54133 5



FILE NO. NO. 353 SITE NO. 1
W-15-1
DATE EST. 16092 AREA 573-5(1)38 SHEET NO. 7
16092-13

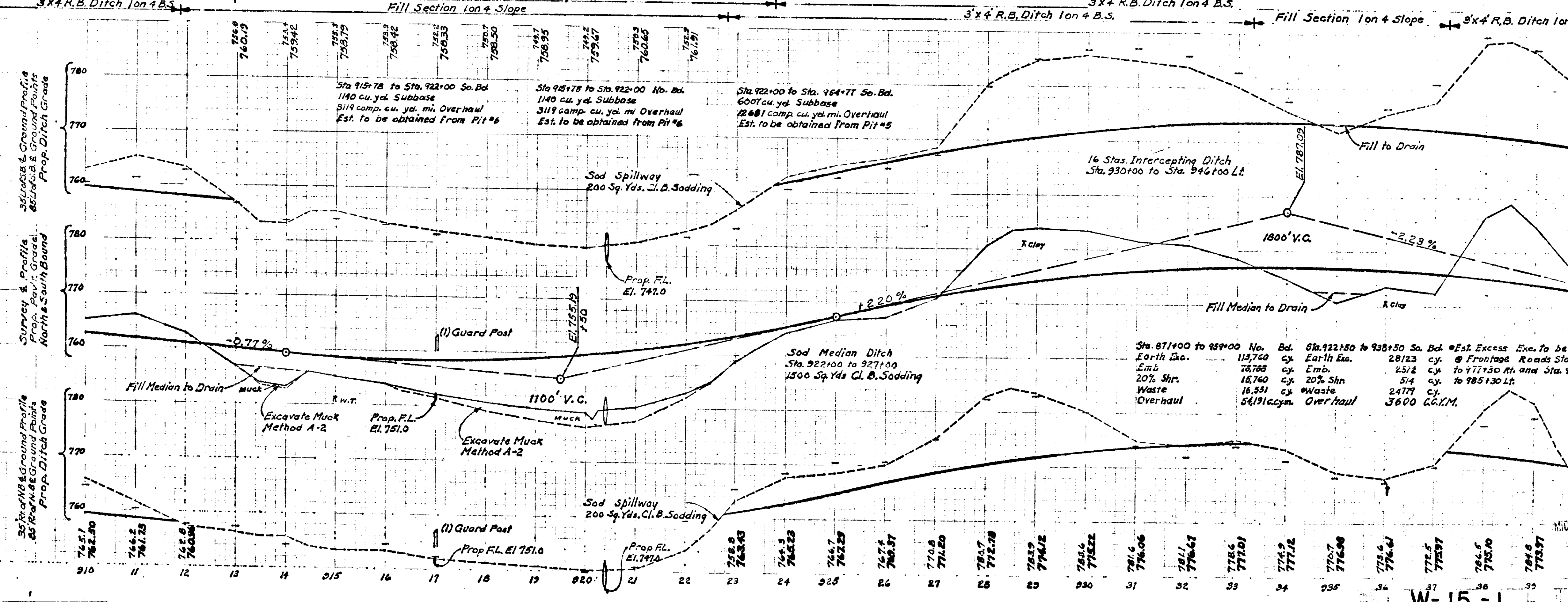
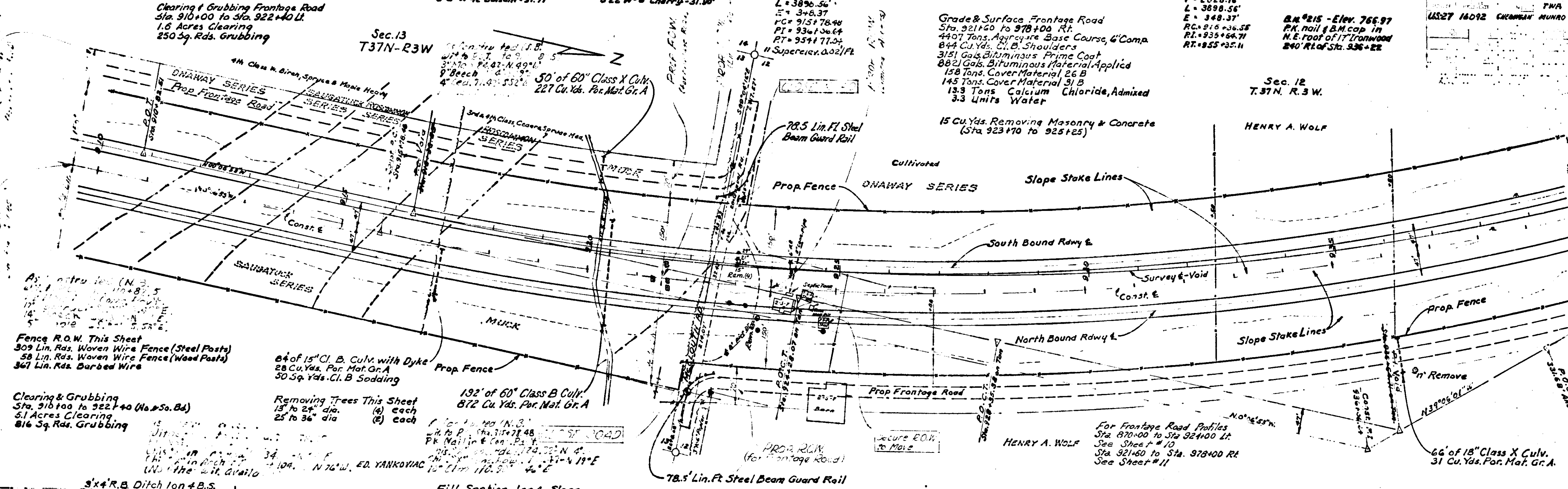
Witnesses to P.O.T. Sta. 910+22.57
B.M. 213 - Elev. 752.32
R.K. nail & B.M. cap in
N. 100' of 11" Maple
176' Lt. of Sta. 916+75

Witnesses to P.O.T. Sta. 916+38.88
B.M. 213 - Elev. 752.32
R.K. nail & B.M. cap in
N. 100' of 11" Maple
176' Lt. of Sta. 916+75

Witnesses to Sec. Cor. Common
To Sec. 12, 13 & 14 - T37N-R3W
16 Rod
N 52°W - 72' Wood - 37.22'
S 41°E - 11' Balsam - 43.21'
S 3°W - 12' Balsam - 31.77'

Witnesses to P.O.T. Sta. 926+28.07
B.M. 214 - Elev. 776.73
R.K. nail & B.M. cap in
N. 100' of 14" Apple
336' Rt. of Sta. 926+02

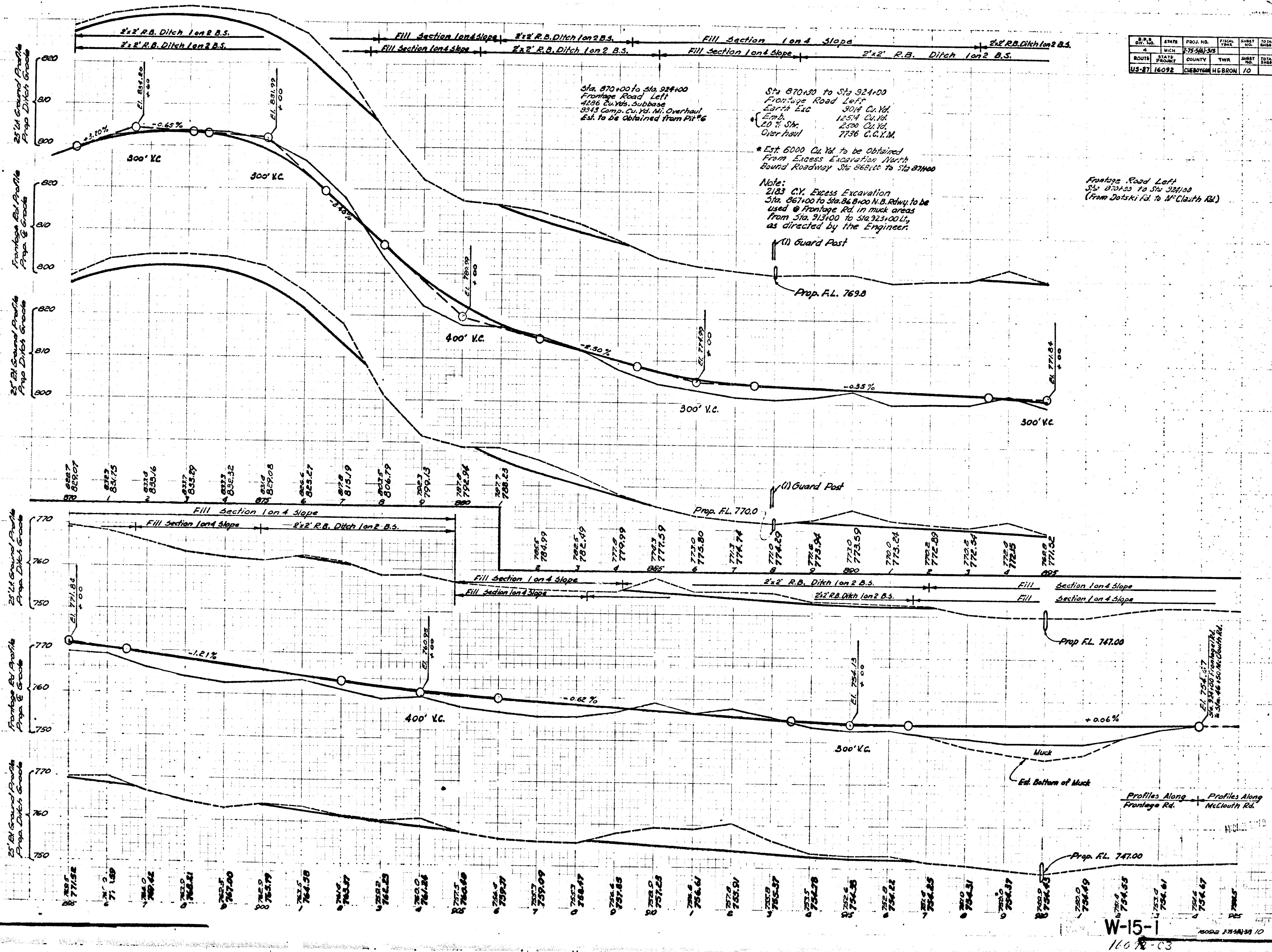
Witnesses to P.O.T. Sta. 936+54.71
B.M. 215 - Elev. 766.97
R.K. nail & B.M. cap in
N. 100' of 11" Maple
240' Rt. of Sta. 936+22



Sta. 871+00 to 939+00 No. Bd.	Sta. 922+50 to 938+50 So. Bd.	Est. Excess Exc. to be used
Earth Eas.	113,760	28,123
Emb.	78,788	25/2
20% Shr.	18,760	514
Waste	18,331	24779
Overhaul	54,191	3600 G.G.M.

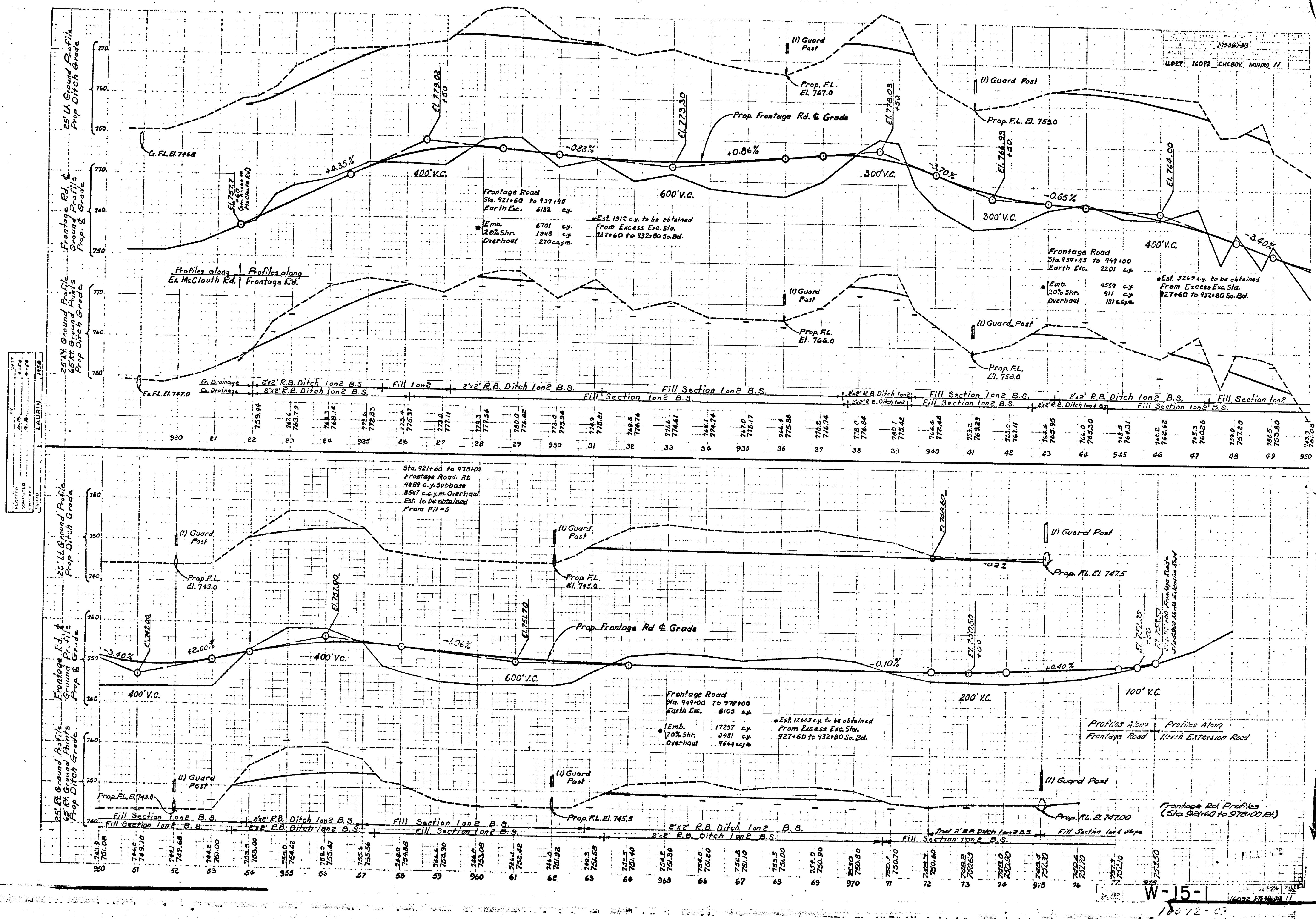
W-15-1

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH	7-75-564-3/3			
ROUTE	STATE PROJECT	COUNTY	TWR	SHEET NO.	TOTAL SHEET
US-27	16092	CLEBOYMAN	HEBRON	10	



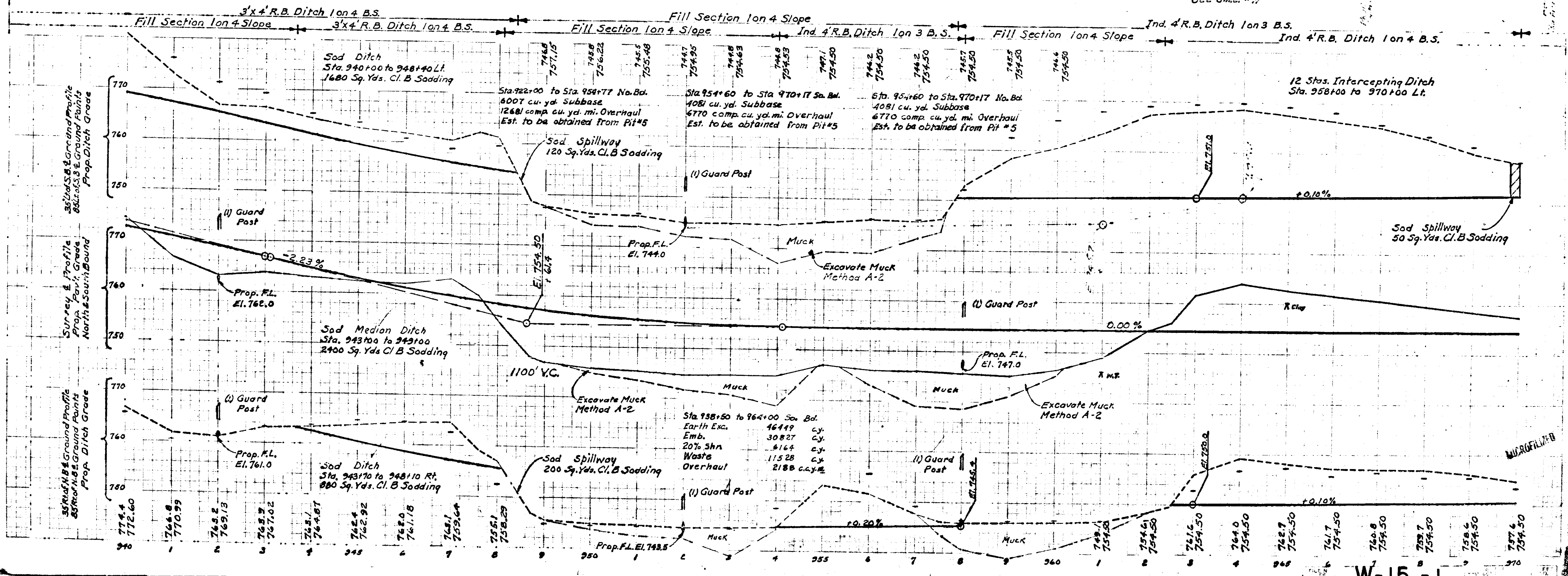
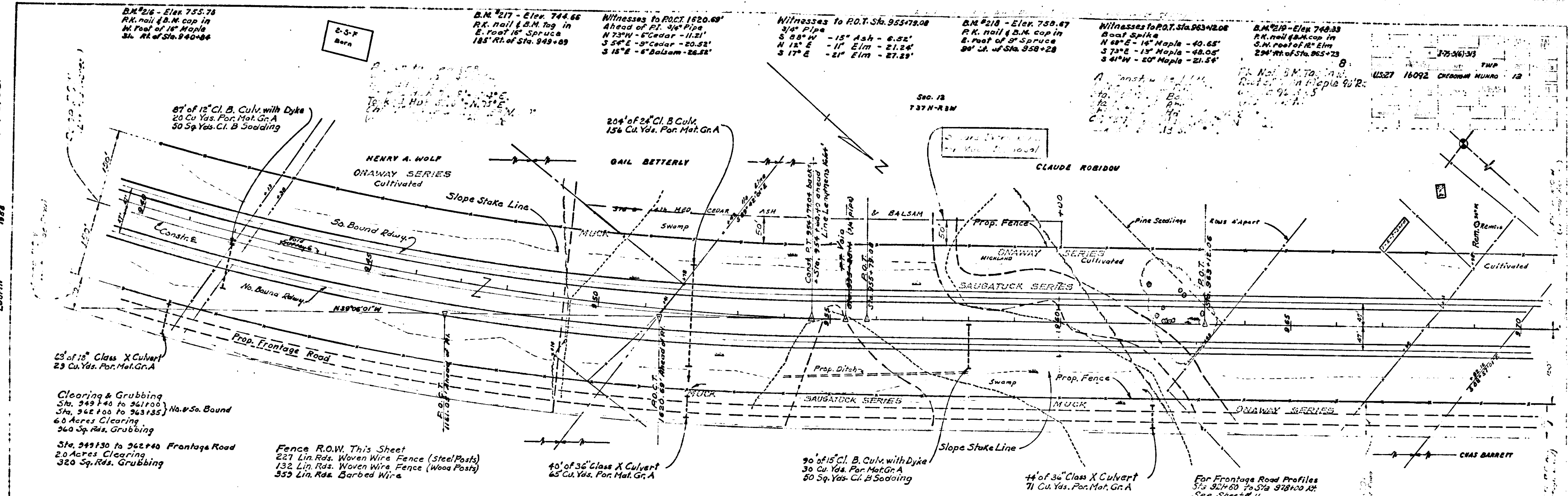
W-15-1

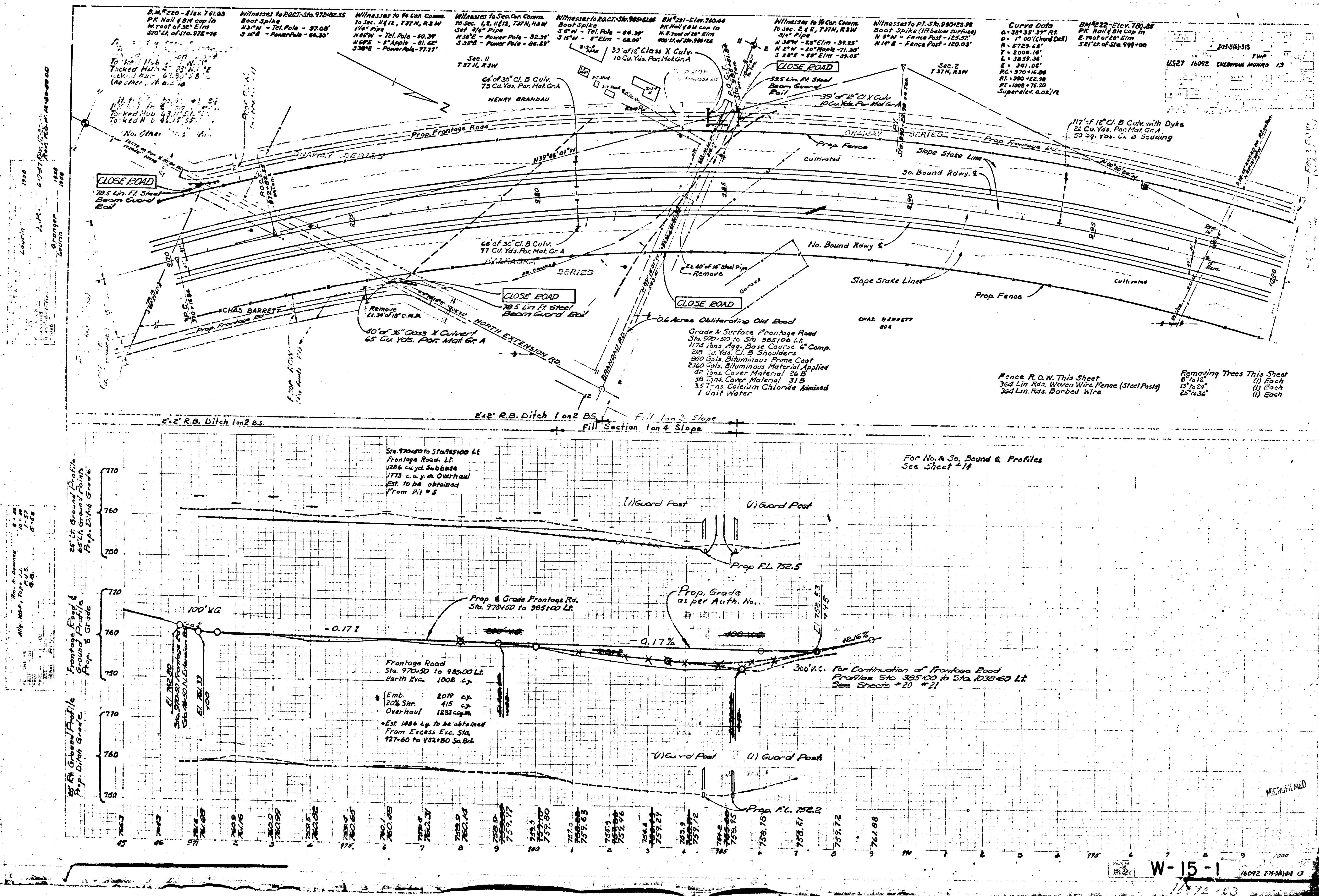
160 72-C3



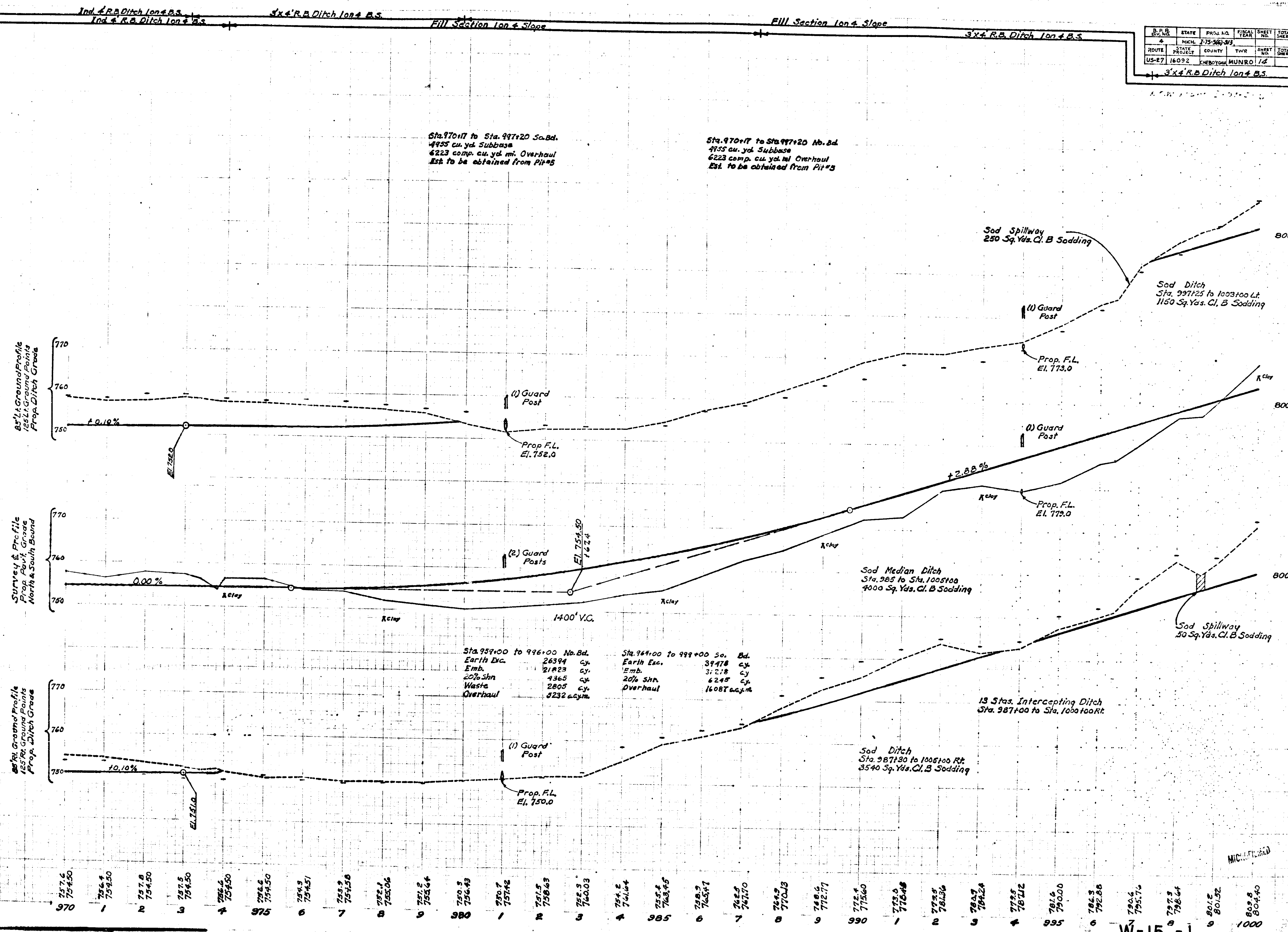
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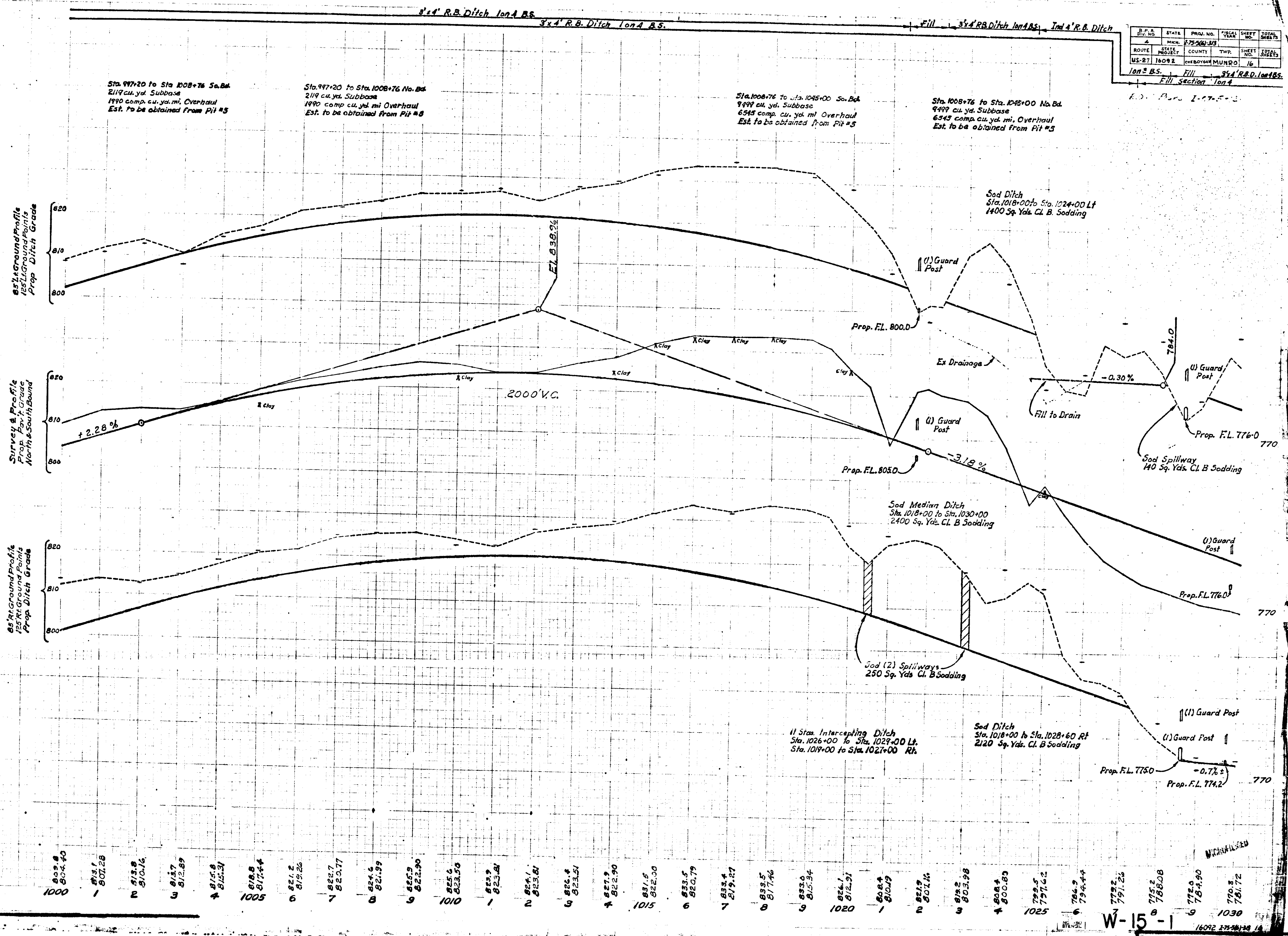




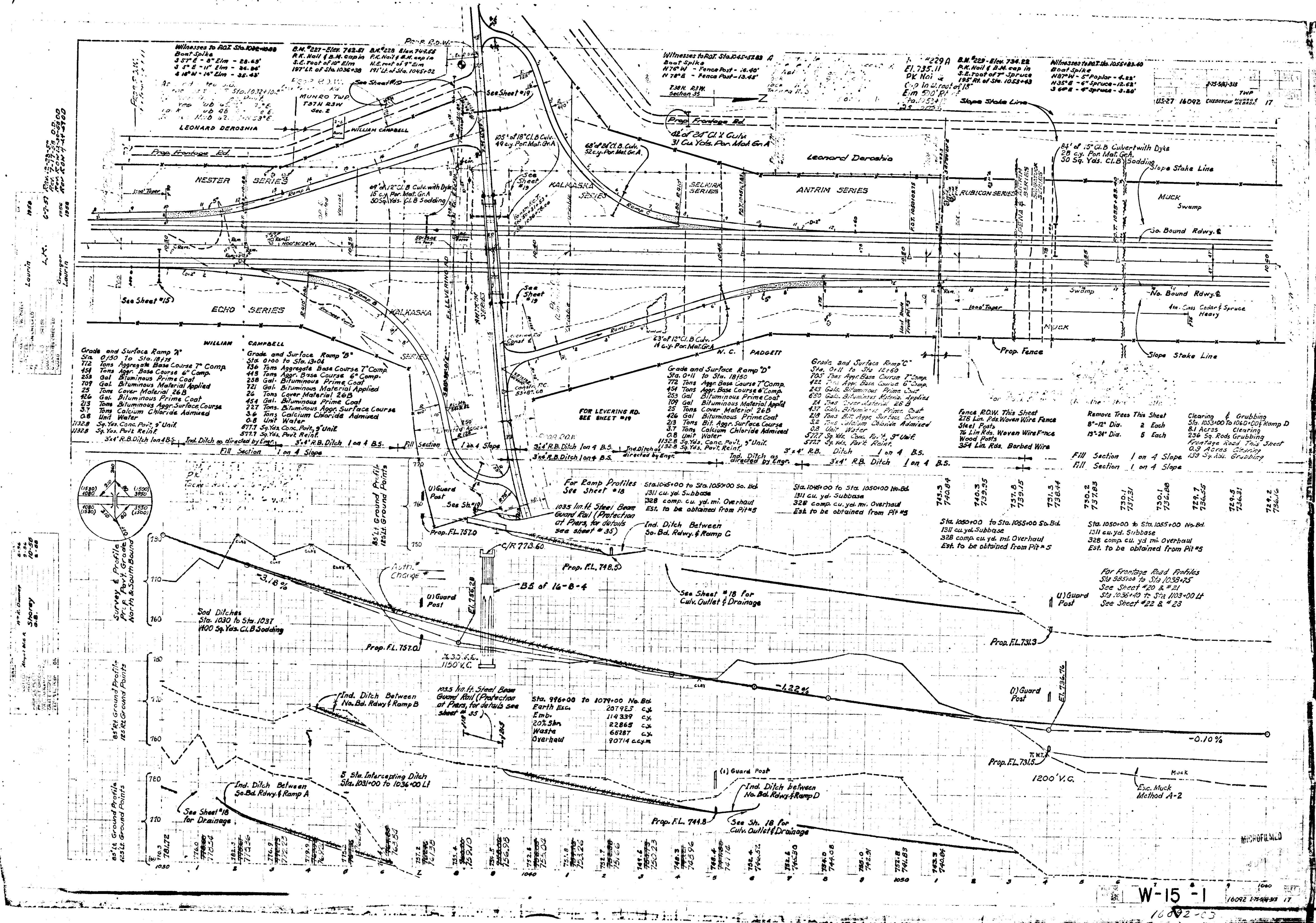
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ROUTE	STATE PROJECT	COUNTY	TWR	SHEET NO.	TOTAL SHEETS
US-27	16092	CHEBOYGAN	MUNRO	14	



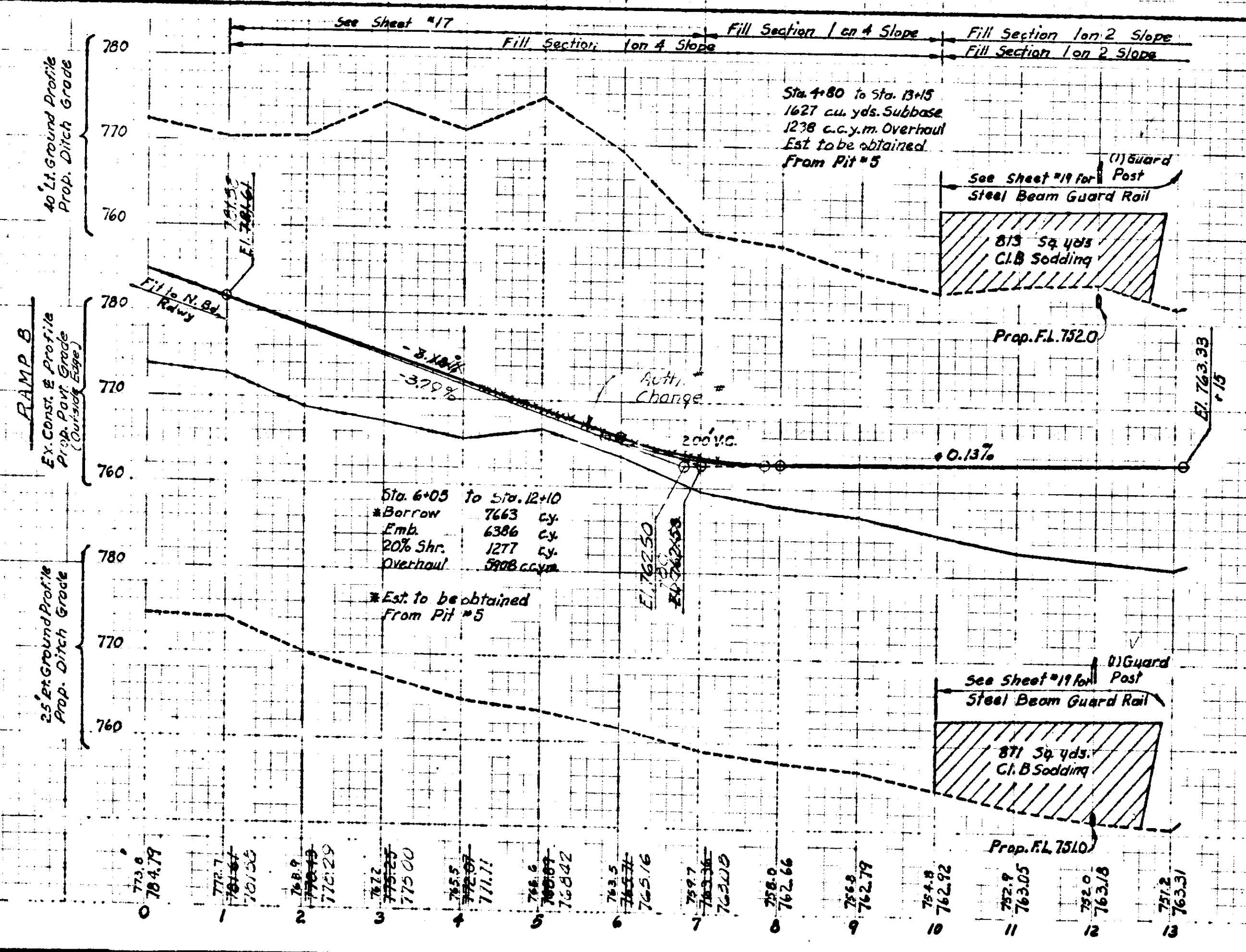
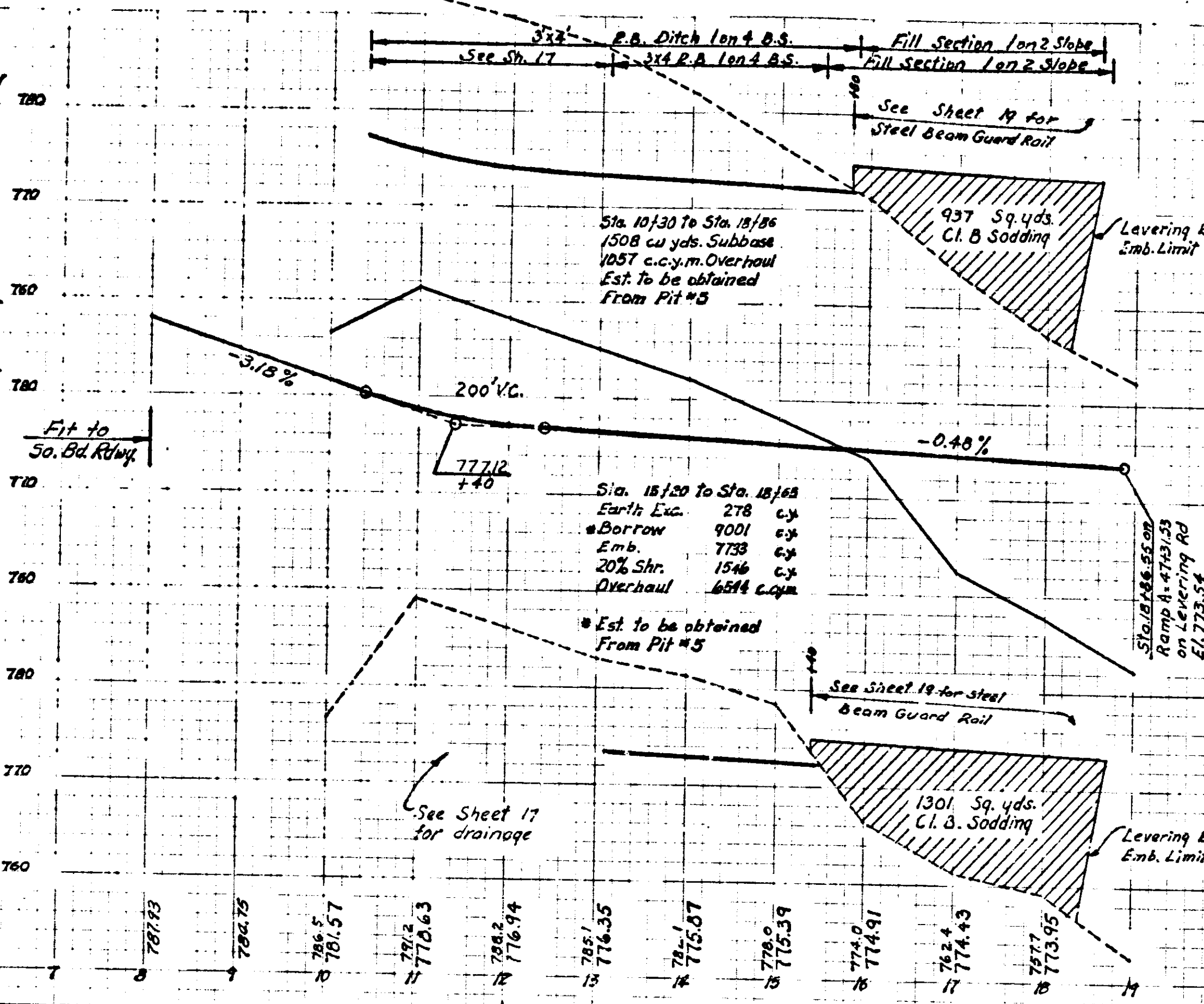
B.P. No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MO.	275-400-38			
ROUTE	STATE	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS
MS-27	MO.	CHEBOYAN	MUNRO	16	



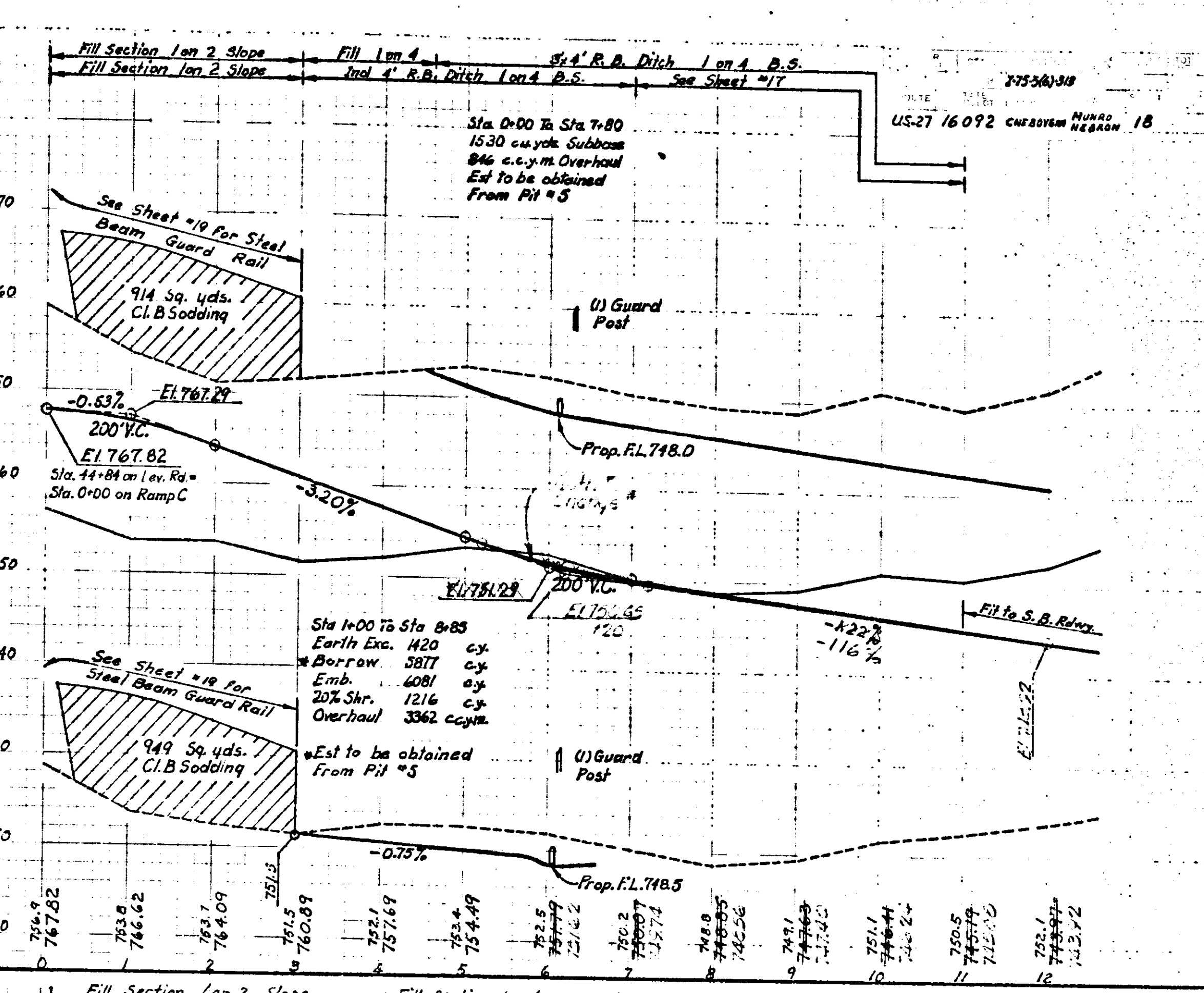
Wm. J. Downey
S. J. Sherry
1938



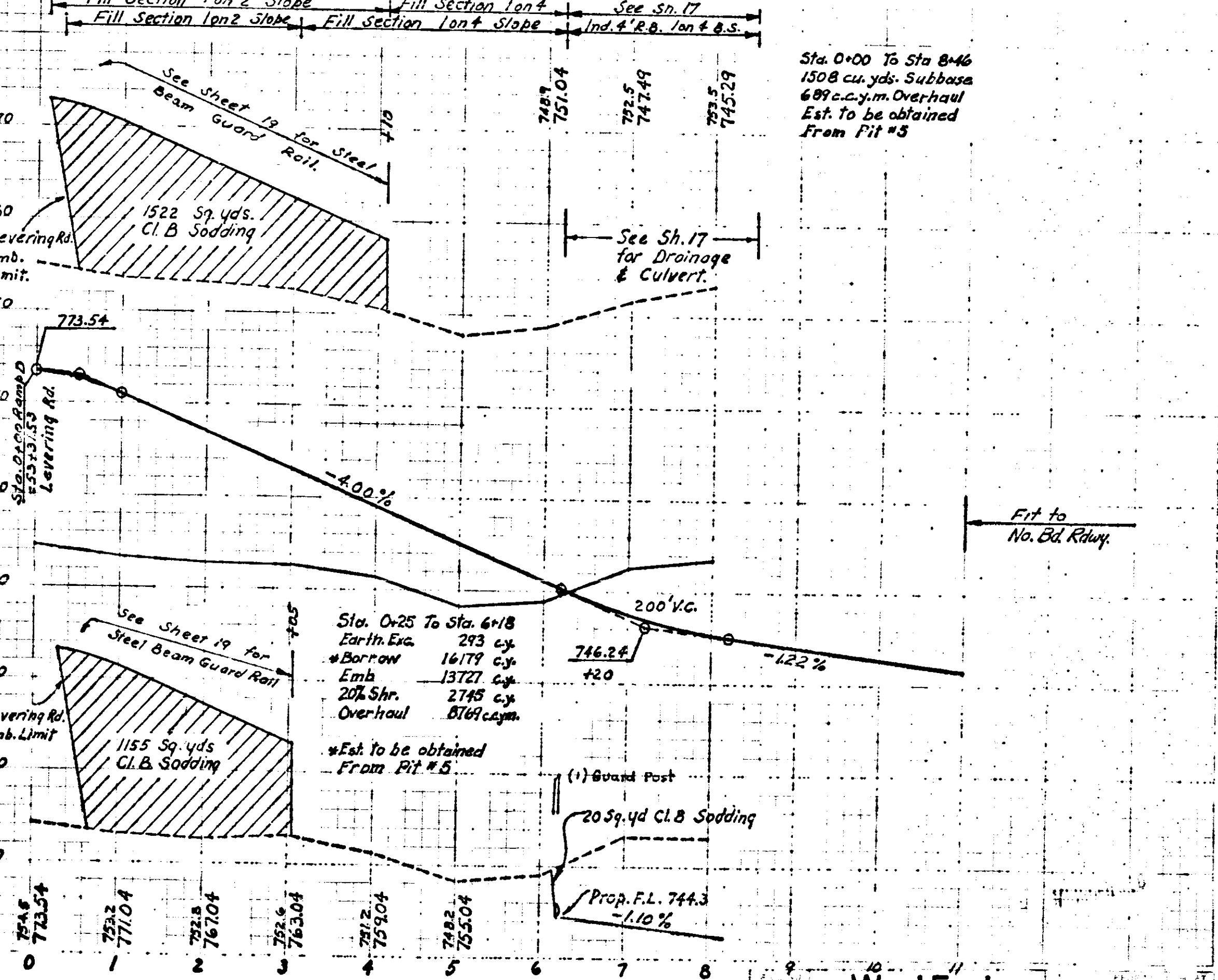
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Ex. Const. & Profile
Prop. Ditch Grade
Prop. Ditch Grade

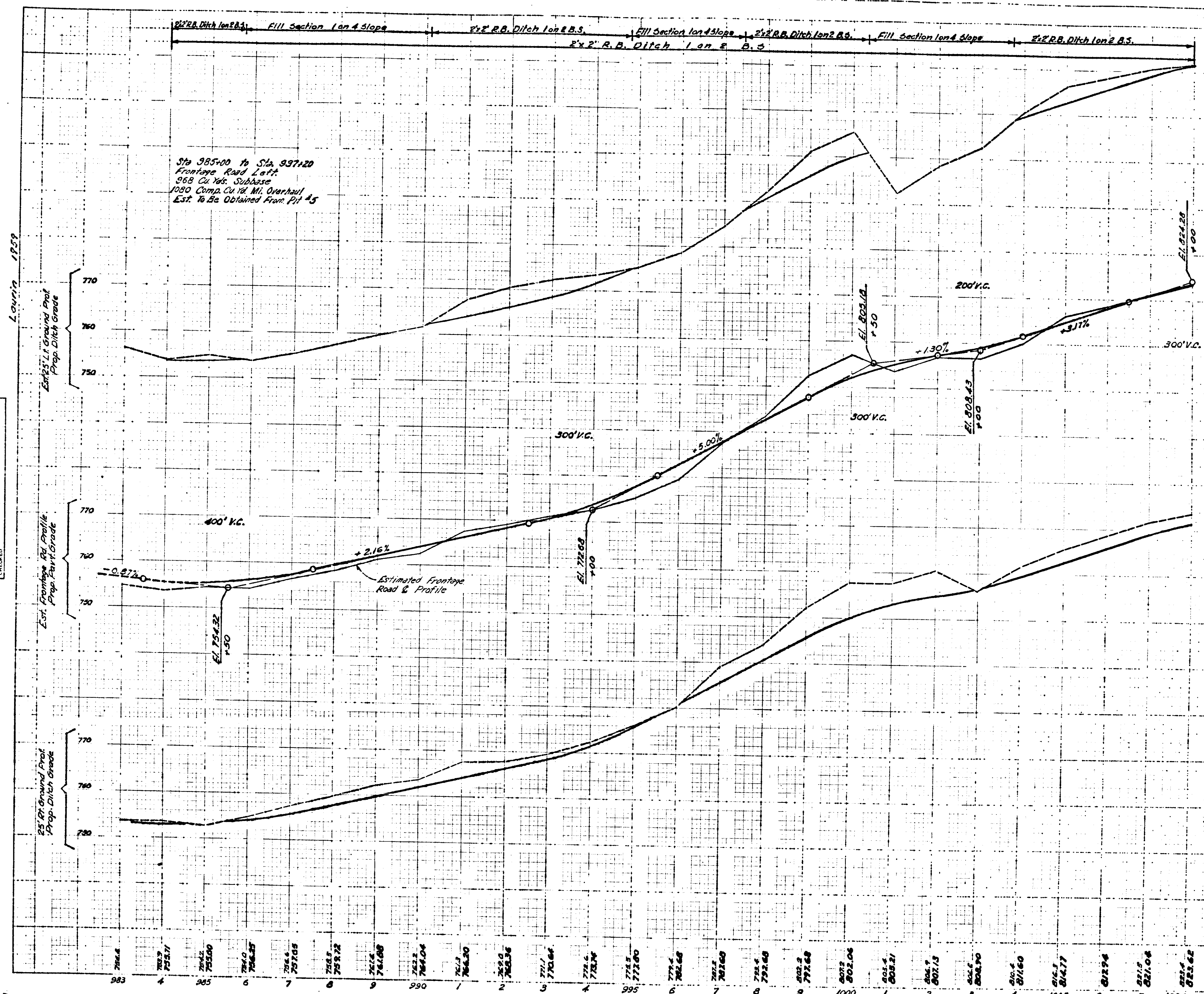


RAMP C
Ex. Const. & Profile
Prop. Ditch Grade
Prop. Ditch Grade



RAMP D
Ex. Const. & Profile
Prop. Ditch Grade
Prop. Ditch Grade





175-46(3) 3/3
US-27 10000 CHENYUAN HEBRON 20

Sta. 985+00 to 1038+60
Frontage Road Lt.
Earth Exc. 20923 C.Y.
Emb. 16,596 C.Y.
20% Shr. 3,321 C.Y.
Waste 1,006 C.Y.
Overhaul 2,410 C.C.Y.M.

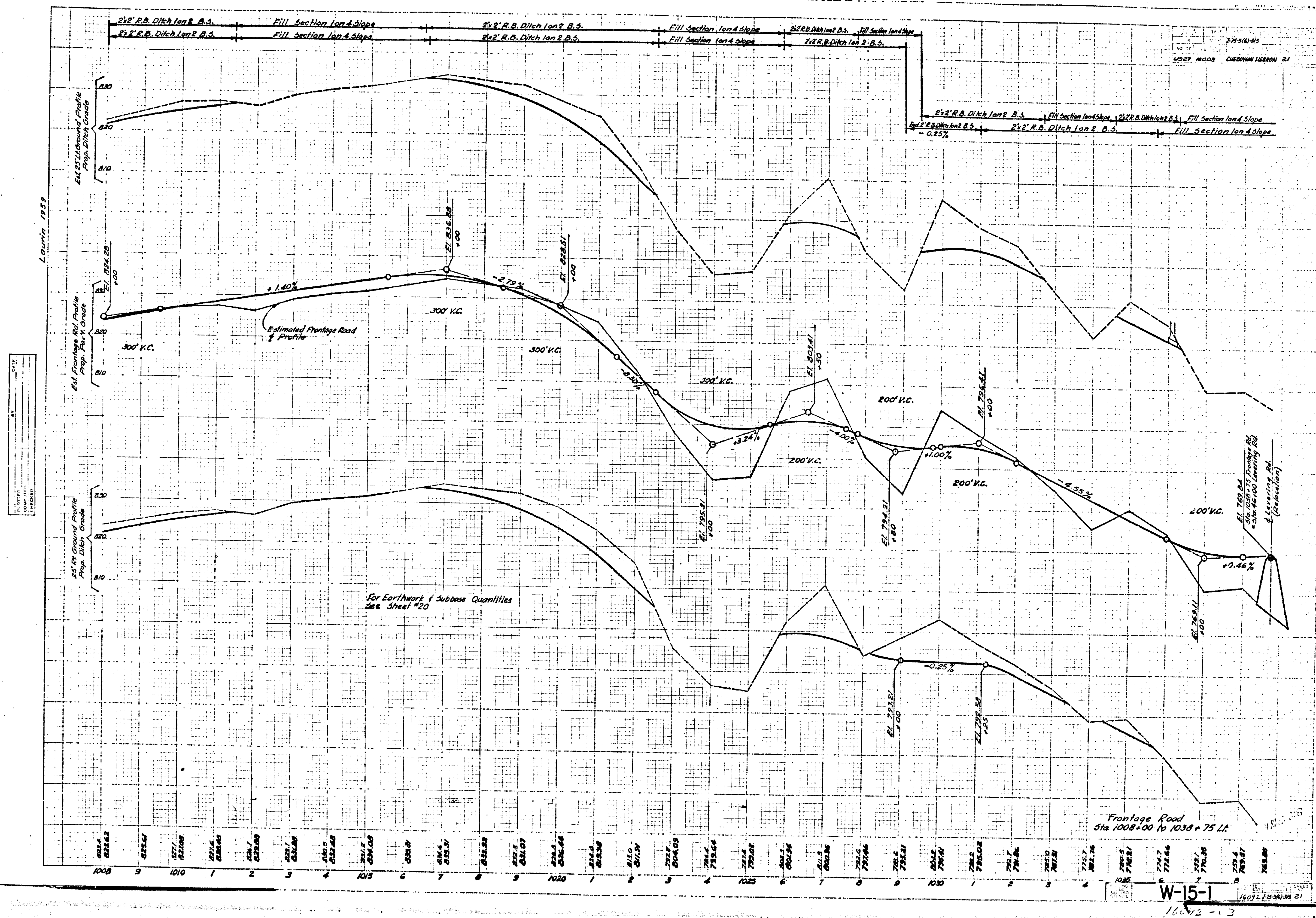
Frontage Road
Sta 985+00 to 1008+00 Lt.

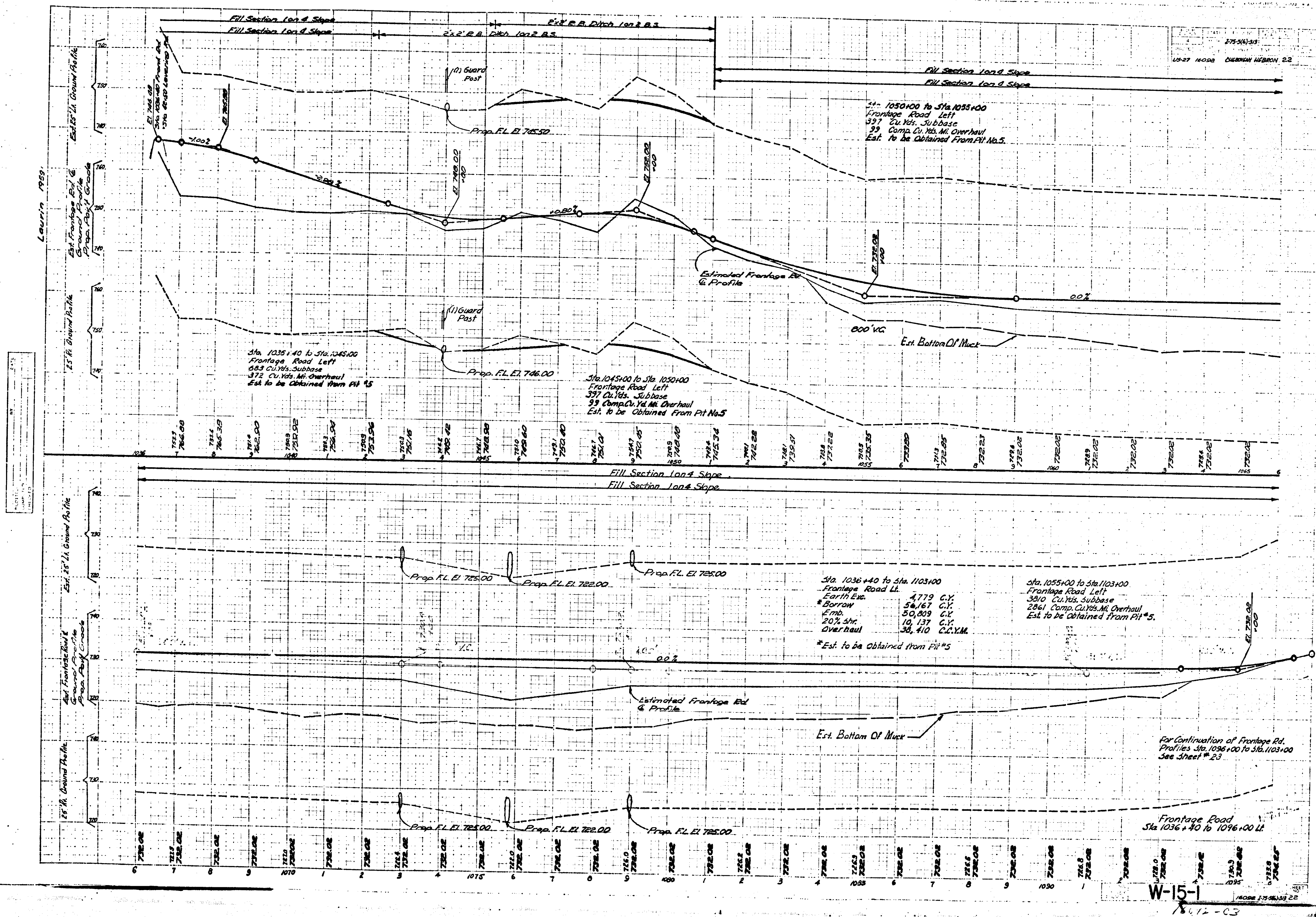
DATE
BY
PLOTTER
COMPILED
CHECKED

W-15-1

16012 175-46(3) 20

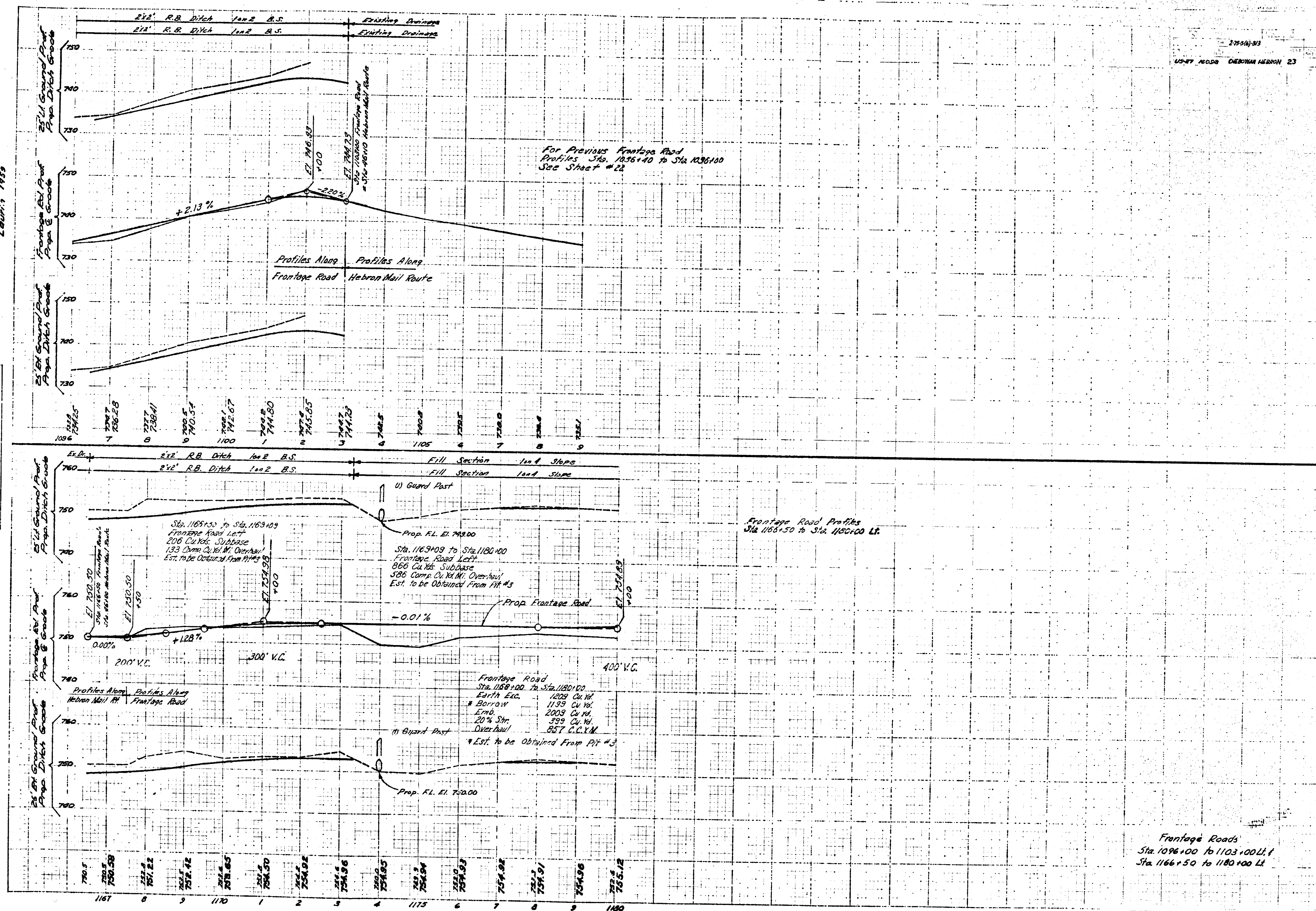
175-46(3)





US-87 16008 CHEBOYEA HERRON 2

1. TO: DIRECTOR, FBI
 2. FROM: SAC, NEW YORK
 3. SUBJECT: [REDACTED]
 4. RE: [REDACTED]
 5. DATE: 10/10/64
 6. TIME: 10:10 AM
 7. BY: [REDACTED]
 8. CA: [REDACTED]



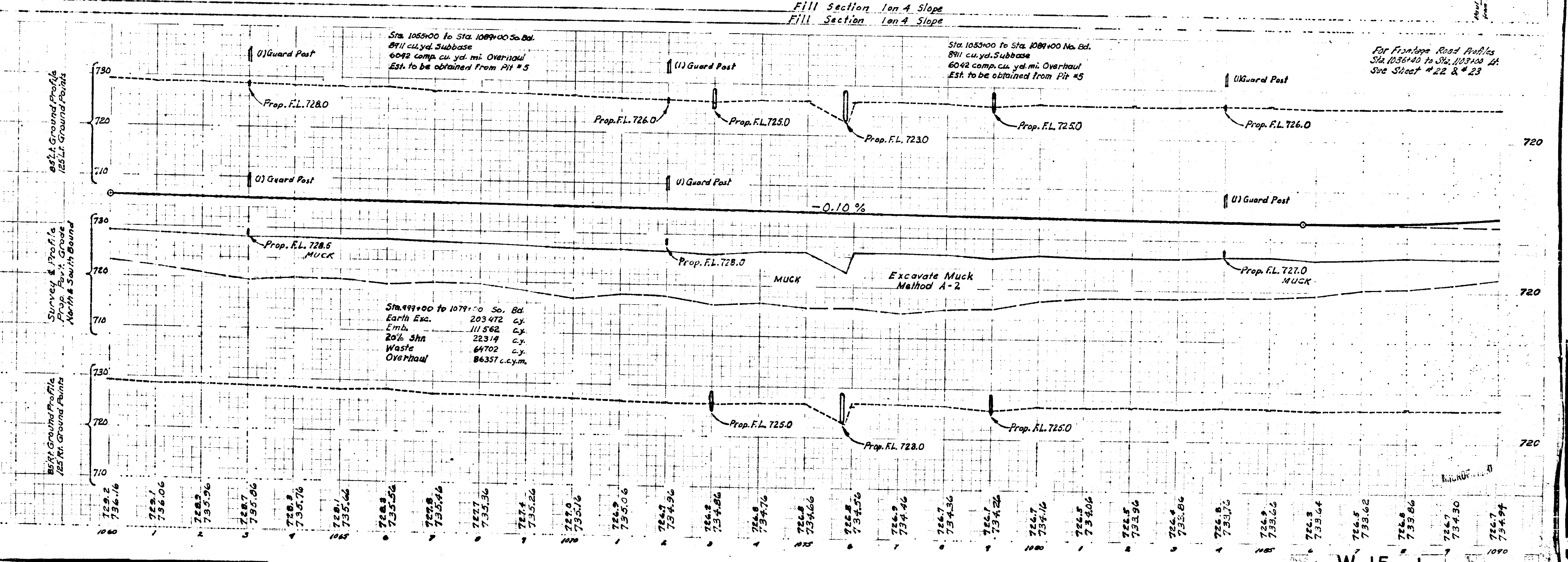
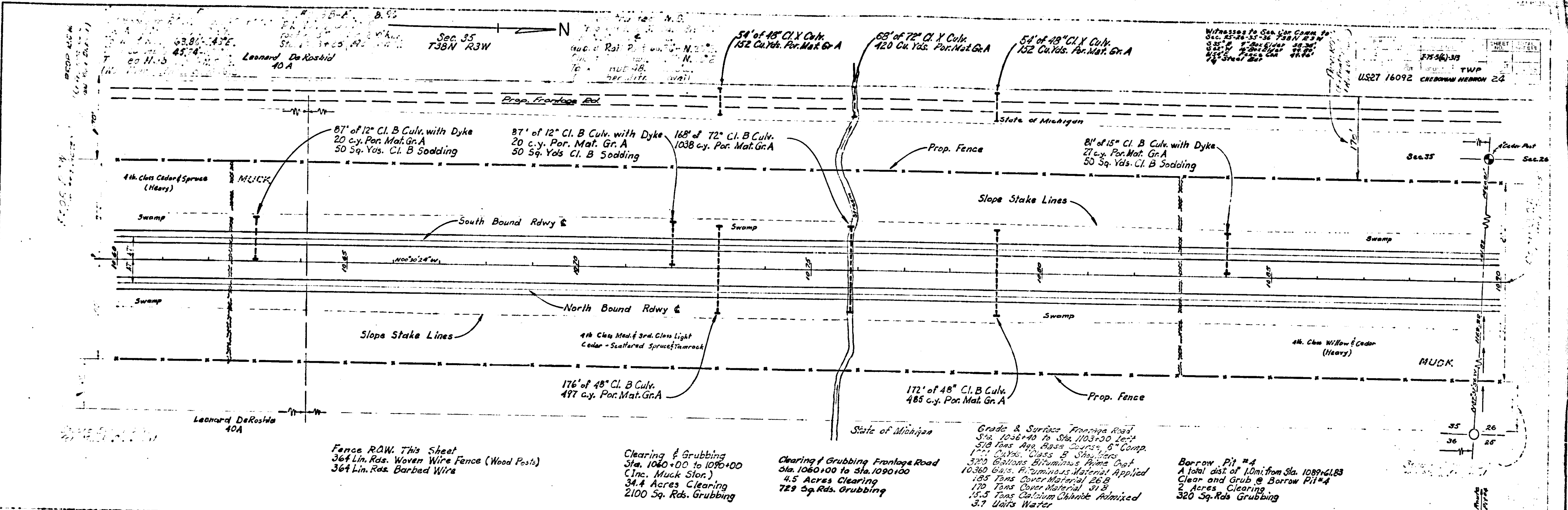
Frontage Roads
Sta. 1096+00 to 1103+00 Lt. &
Sta. 1166+50 to 1180+00 Lt.

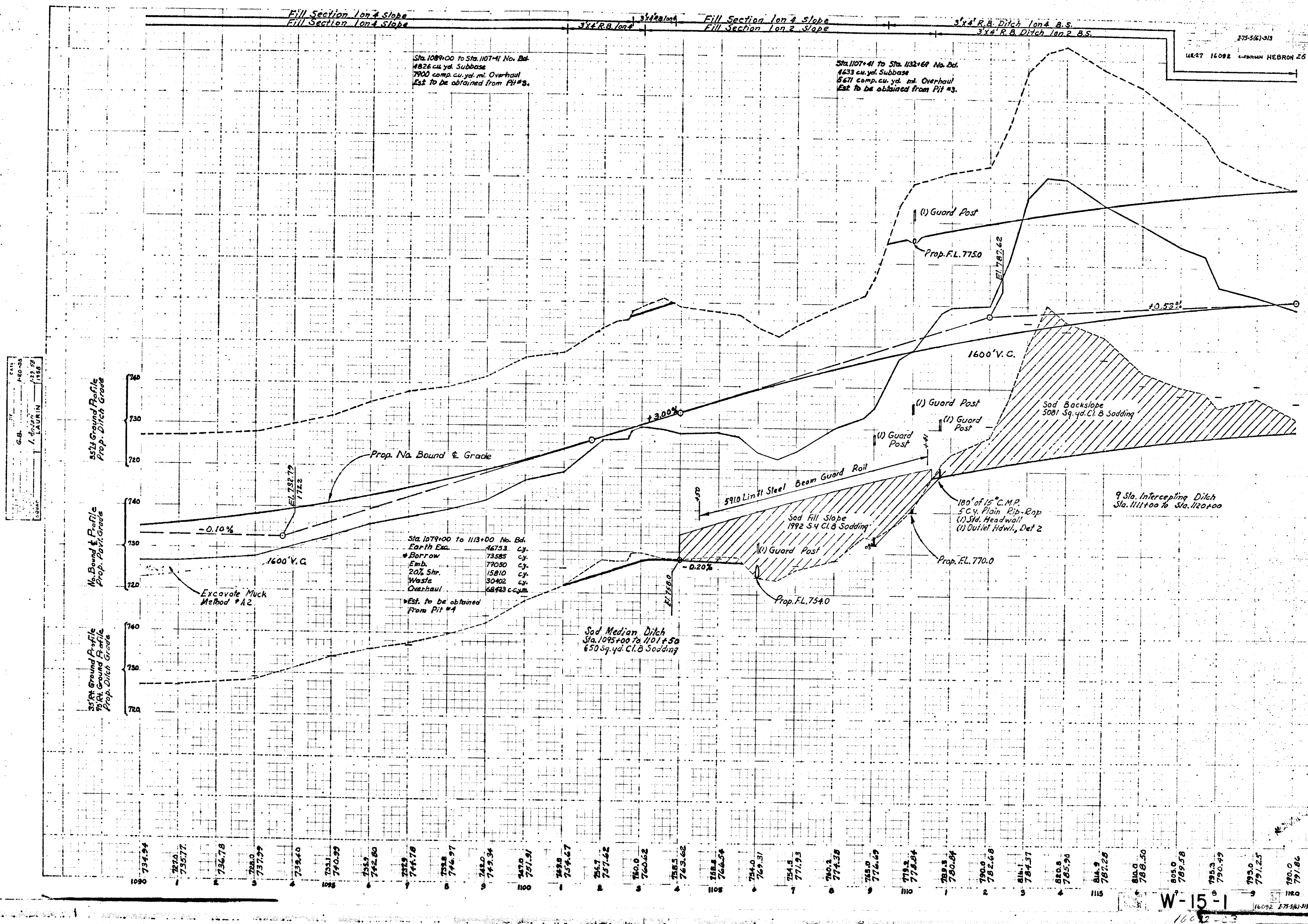
W-15-1

16092-1-75-541-243 2

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100-800

W.F. O'Connell
R.L. Wap
D.M. Stoney
WILL

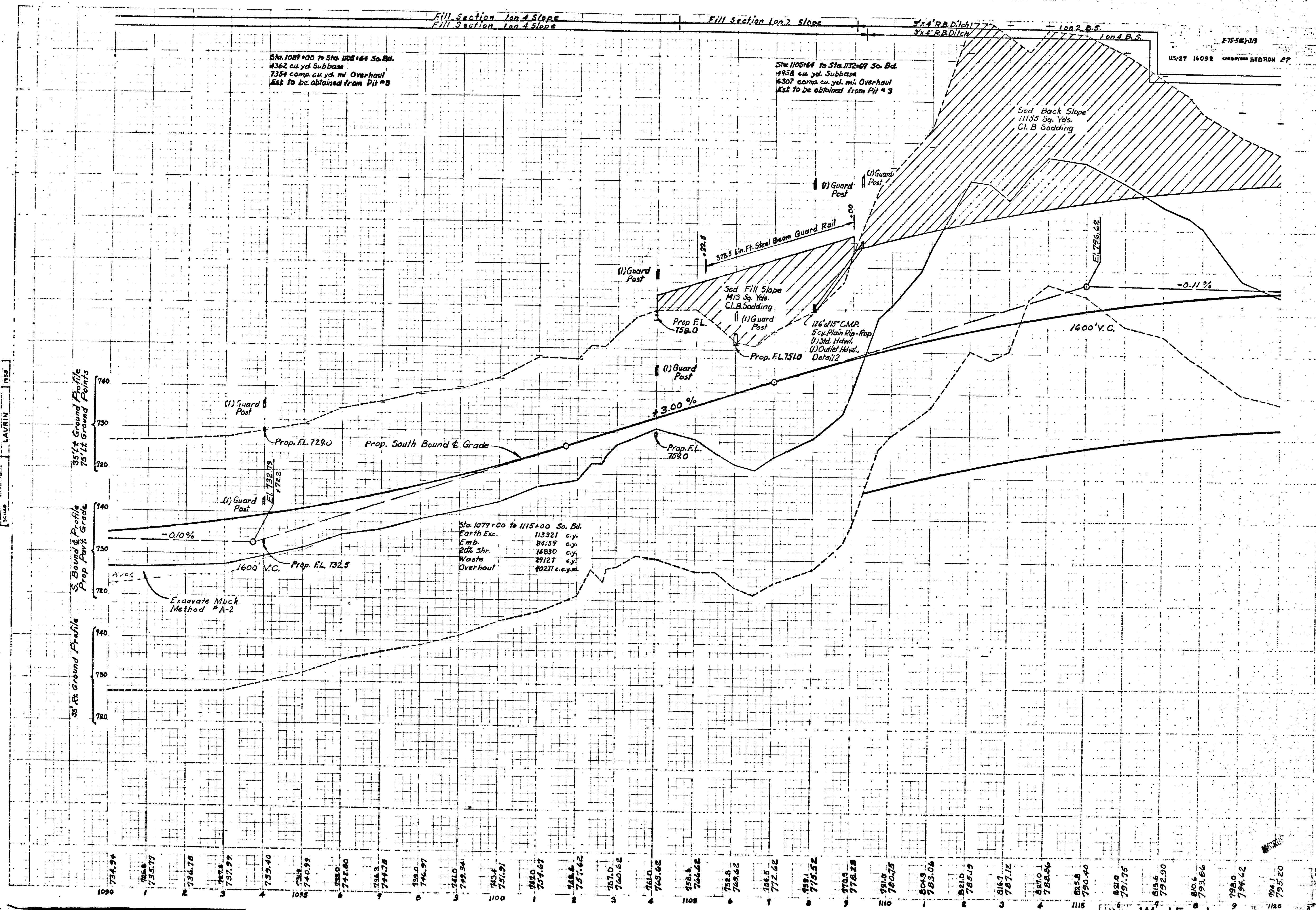




W-15-

16092 7.75-5/61-JH 2

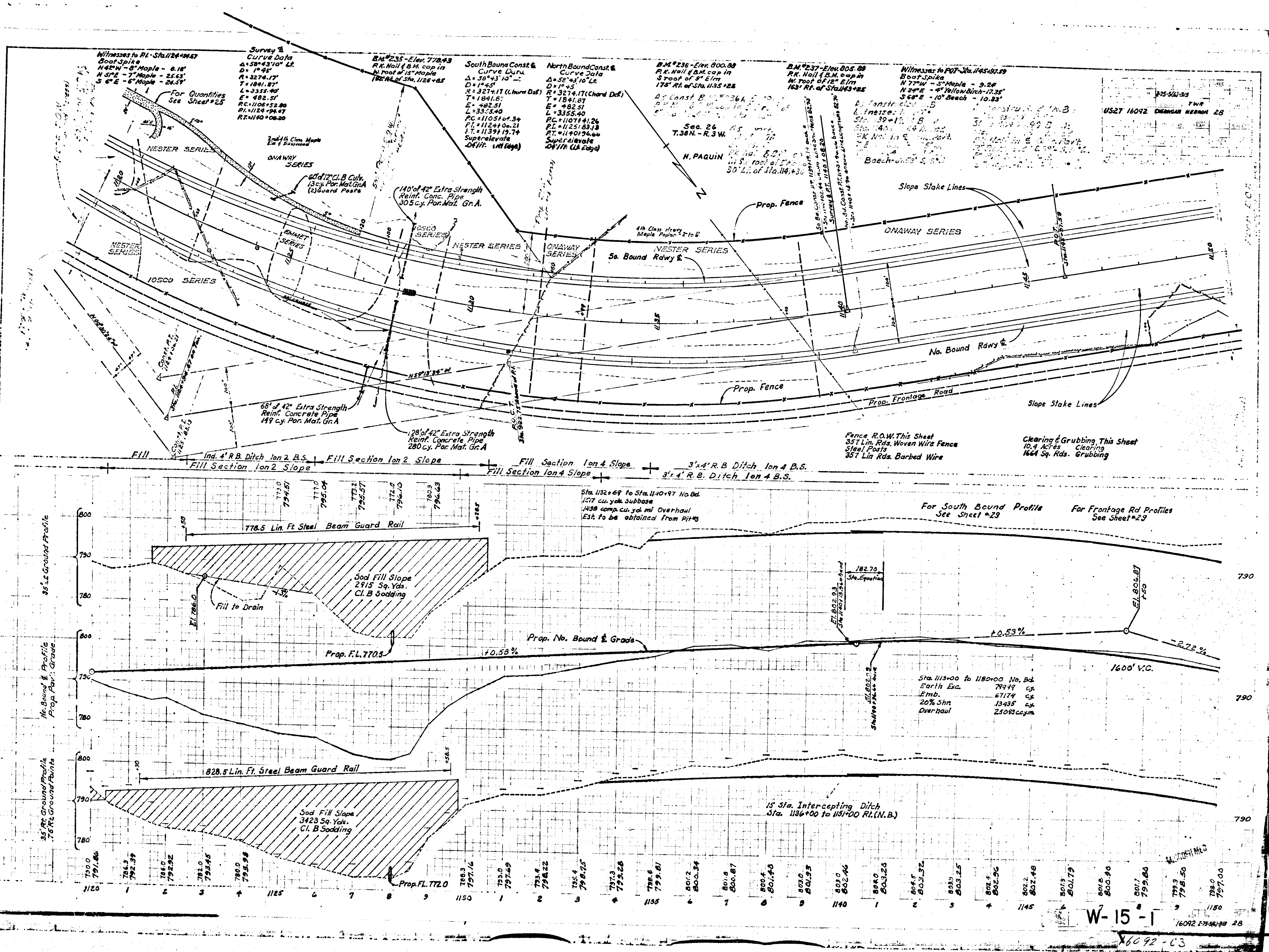
G.M. LAURIN 1958
 1-4058
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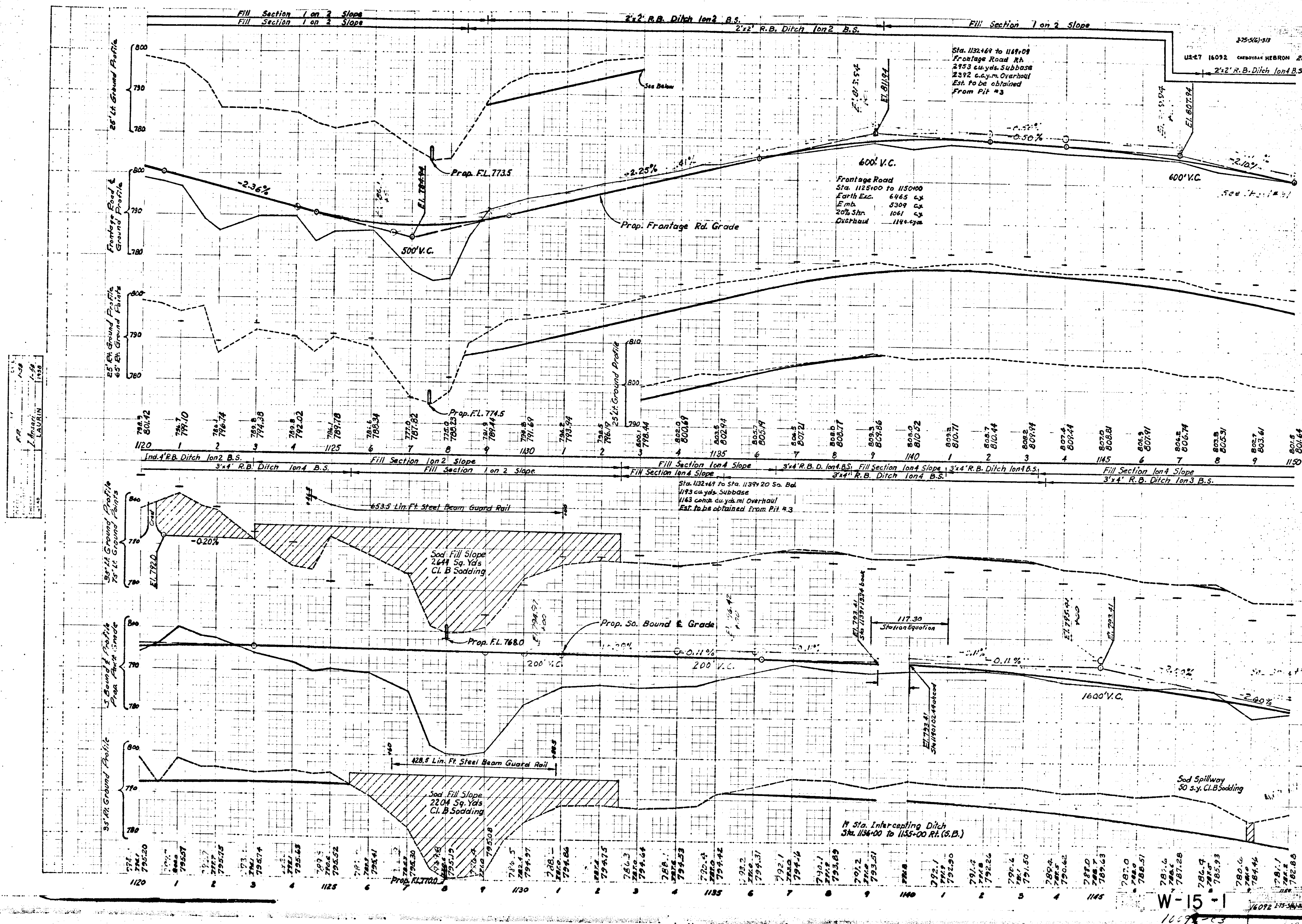


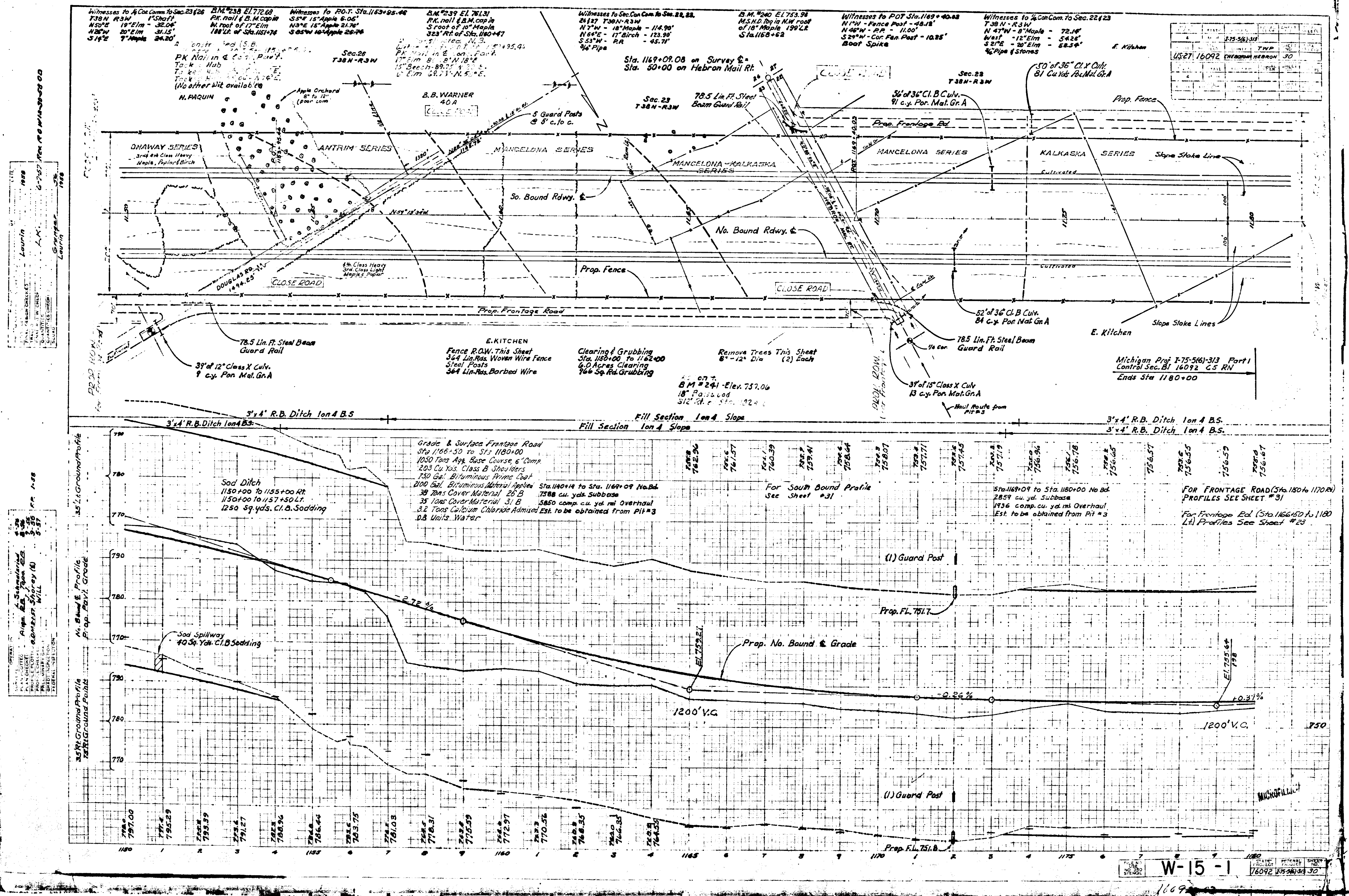
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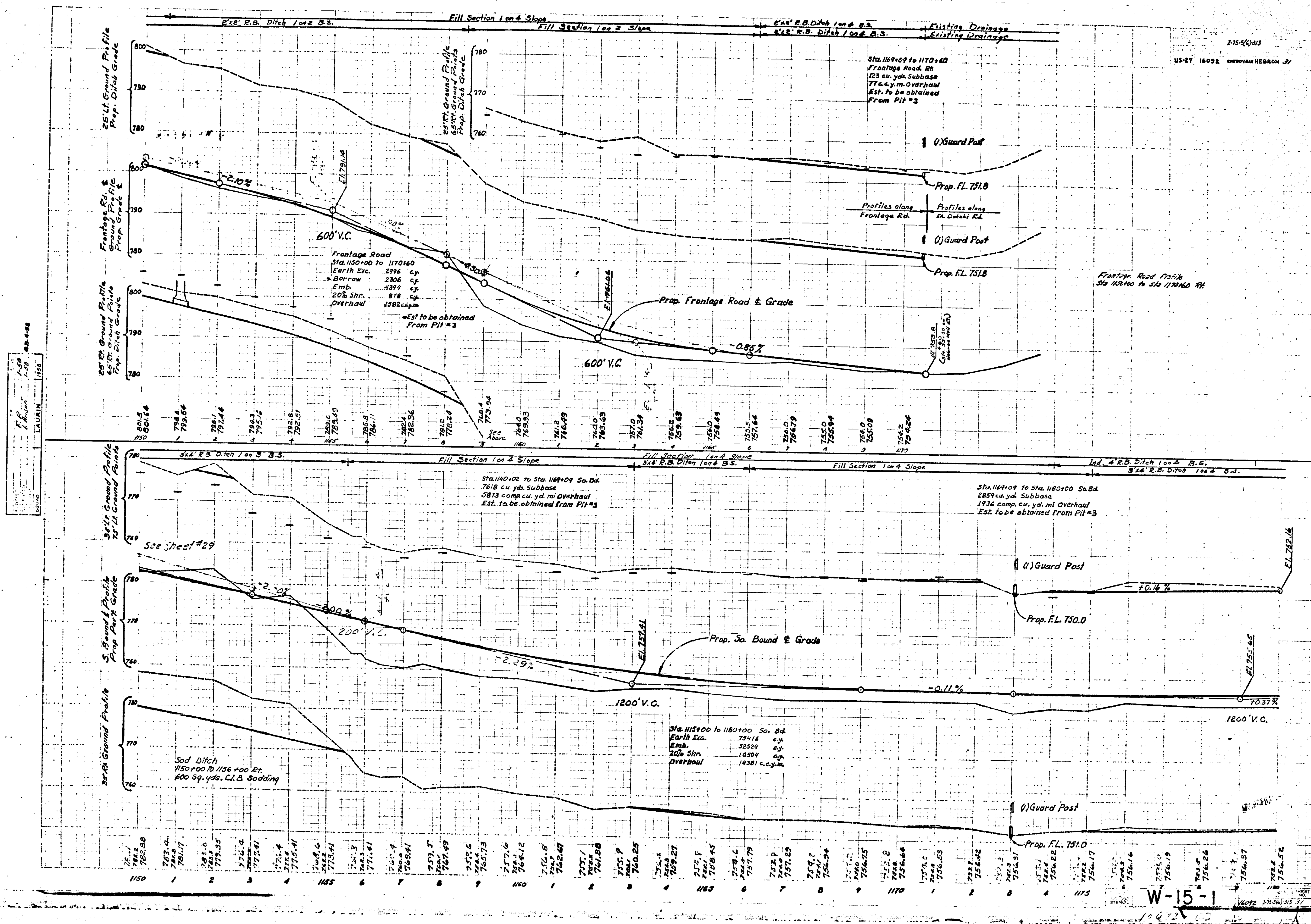
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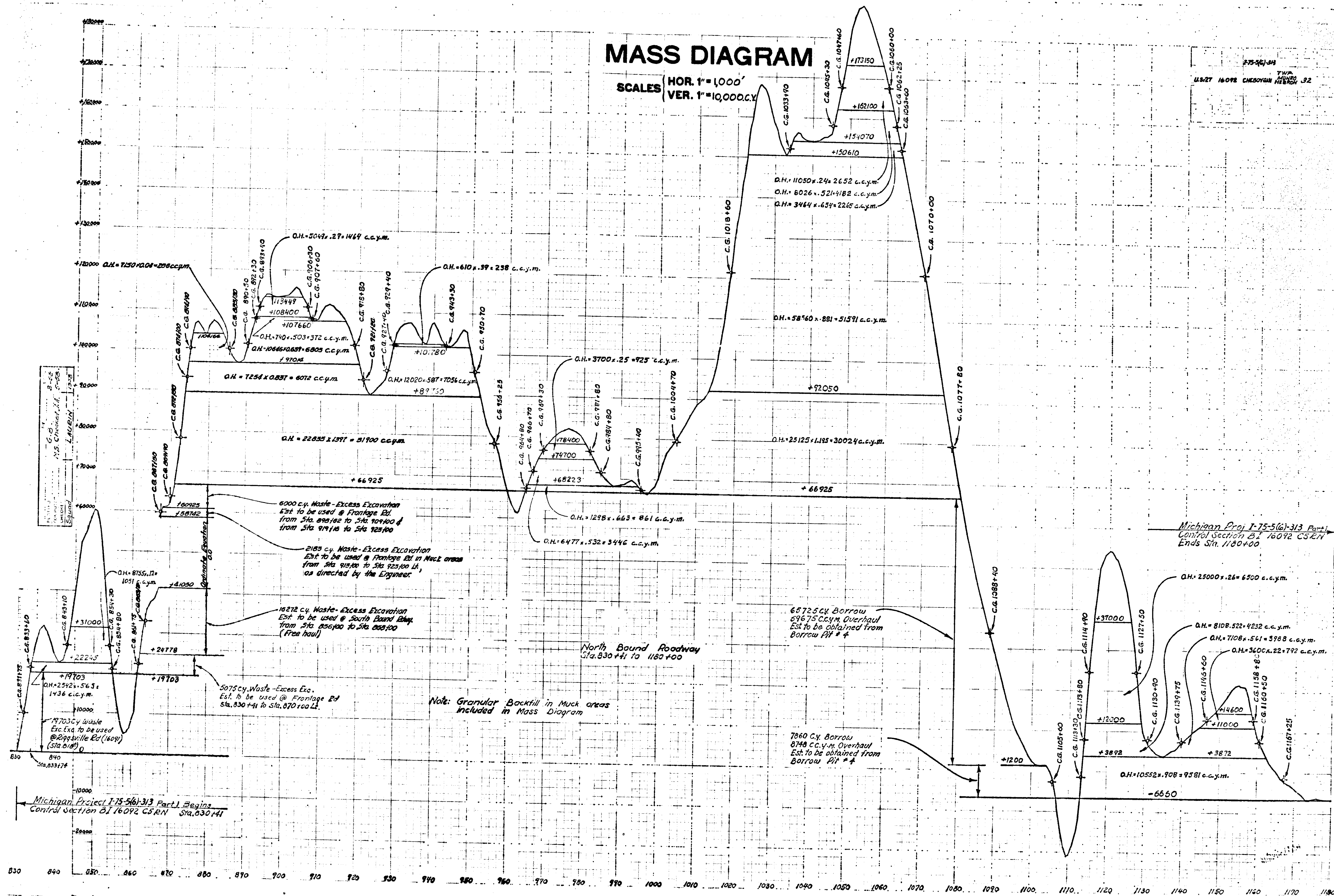








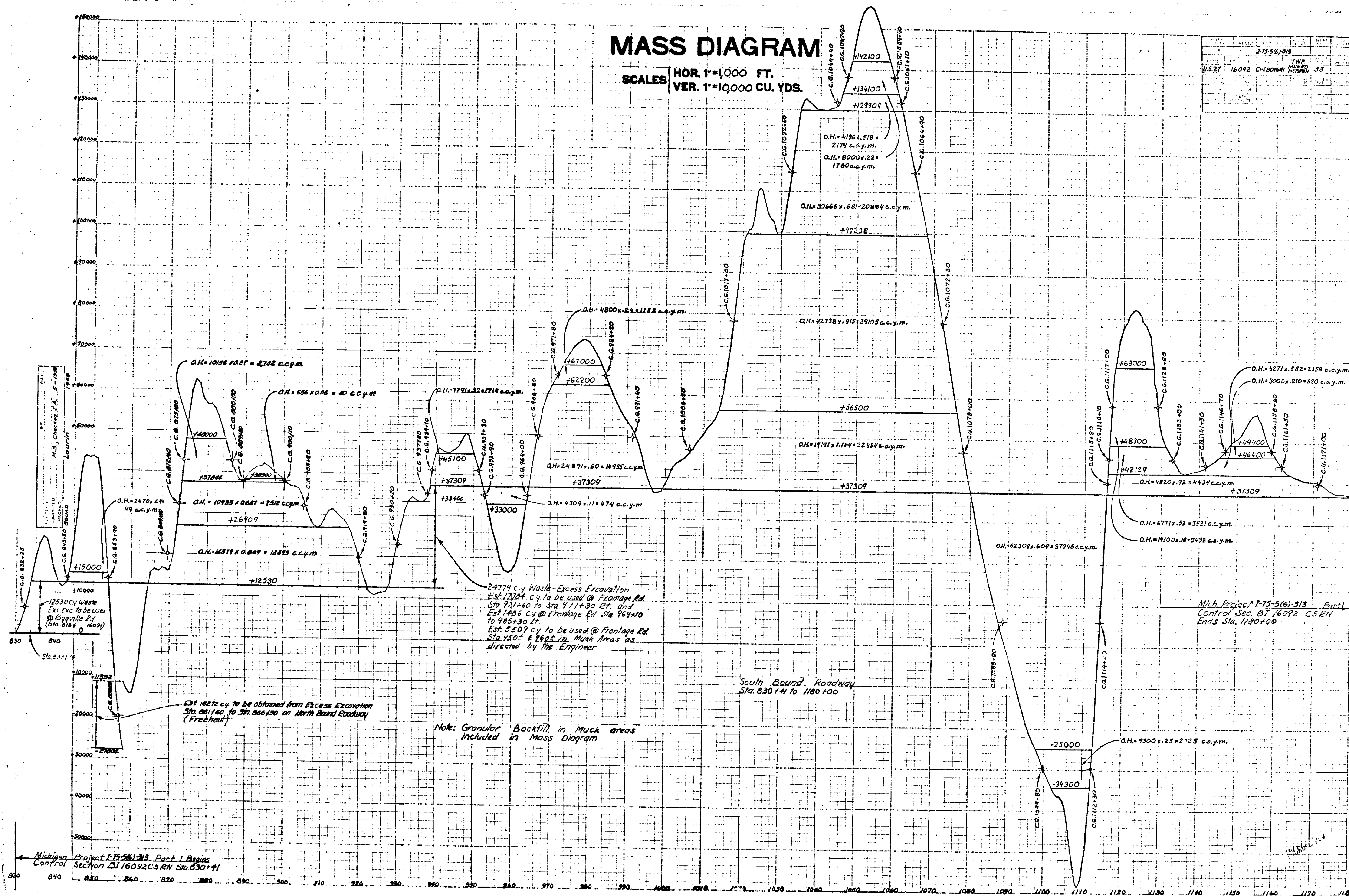
SCALES { **HOR. 1" = 1,000'**
VER. 1" = 10,000 C.Y.



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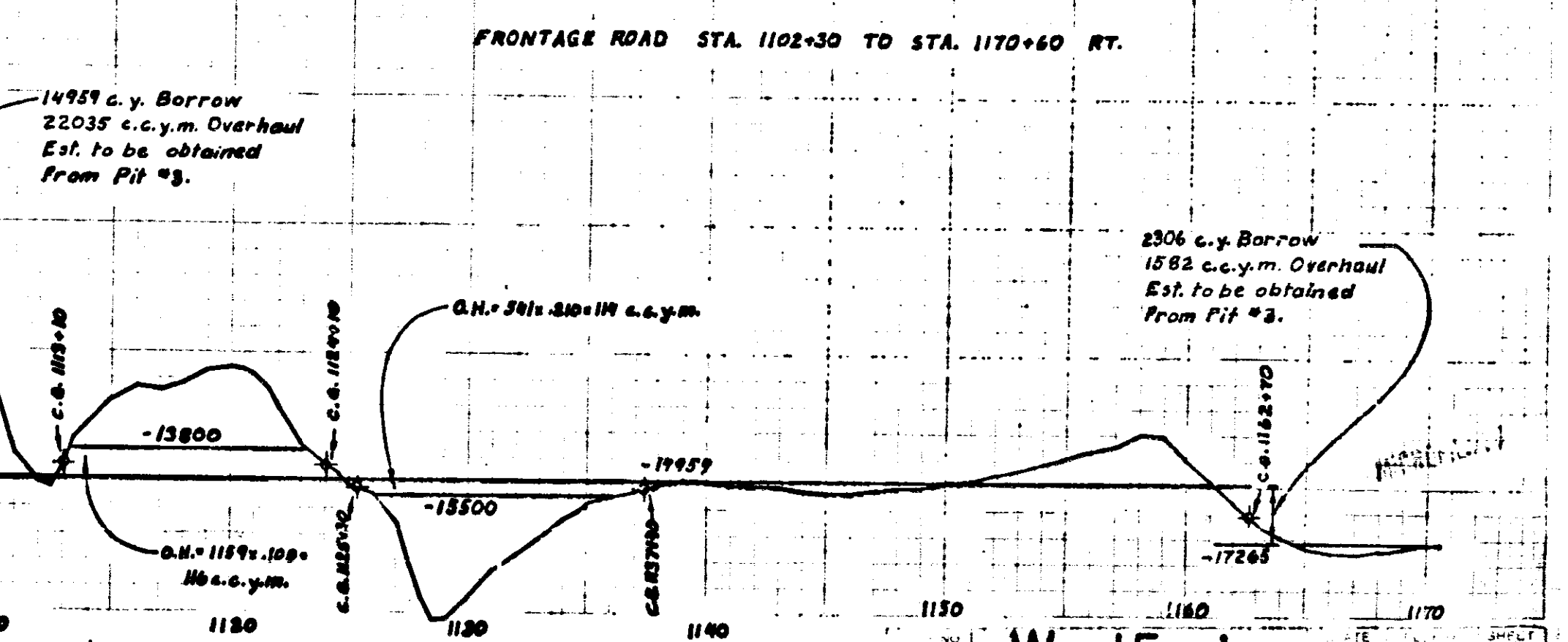
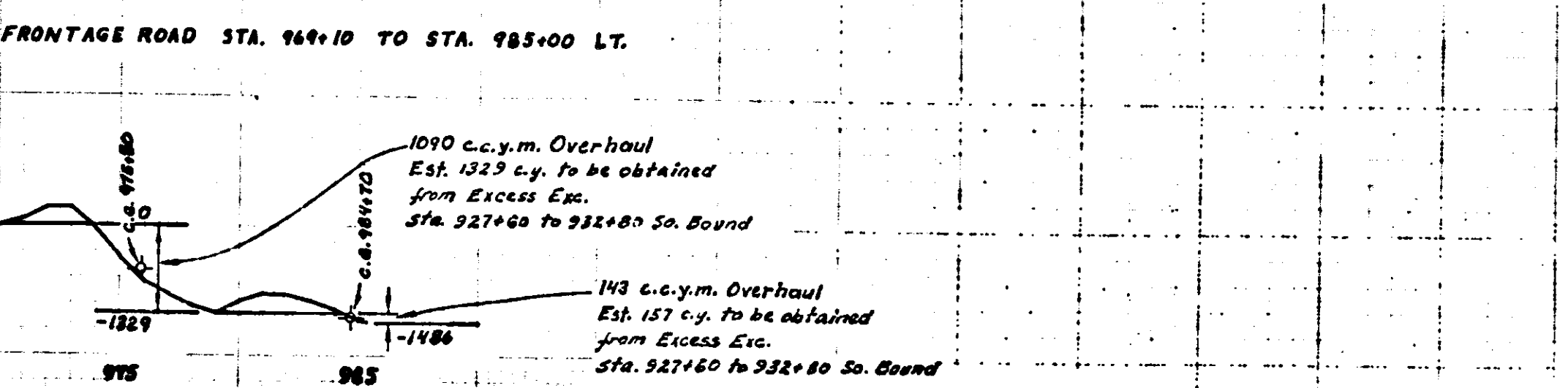
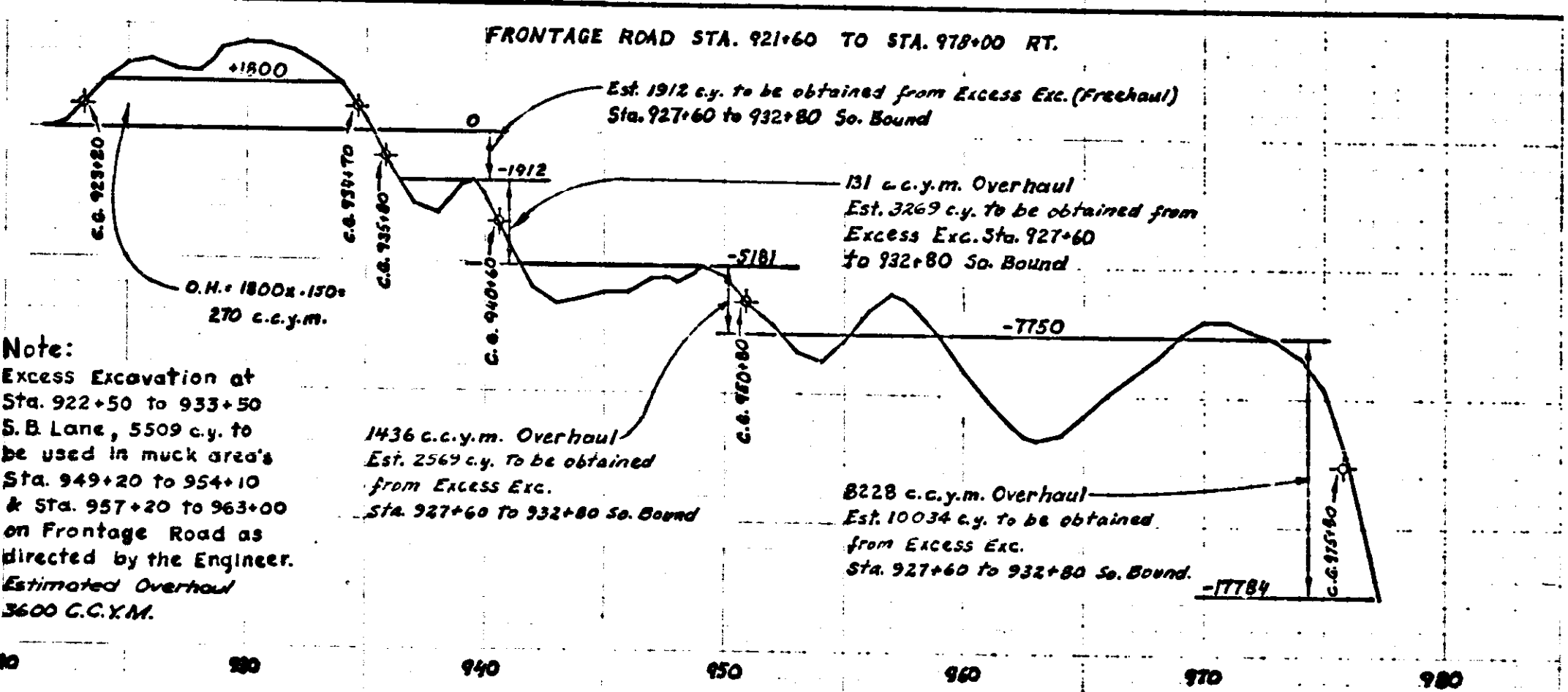
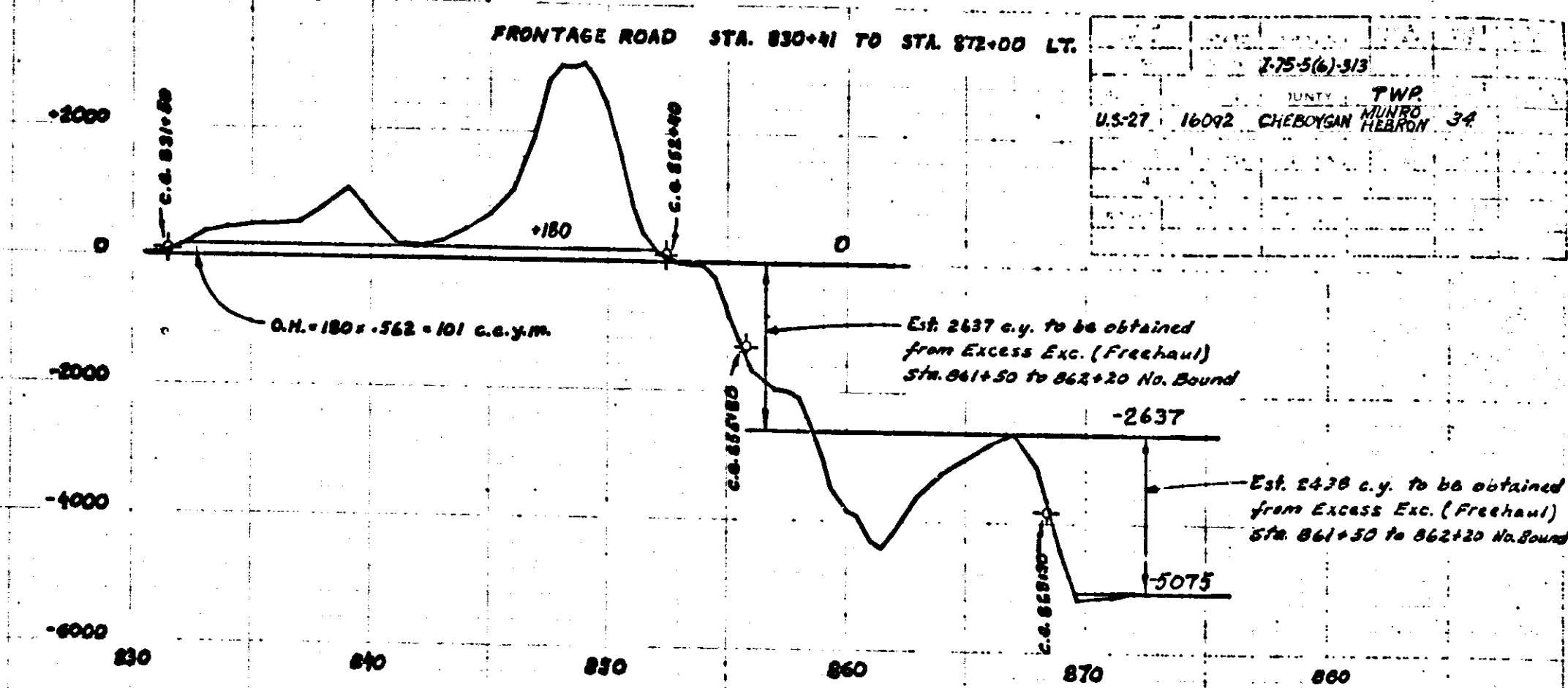
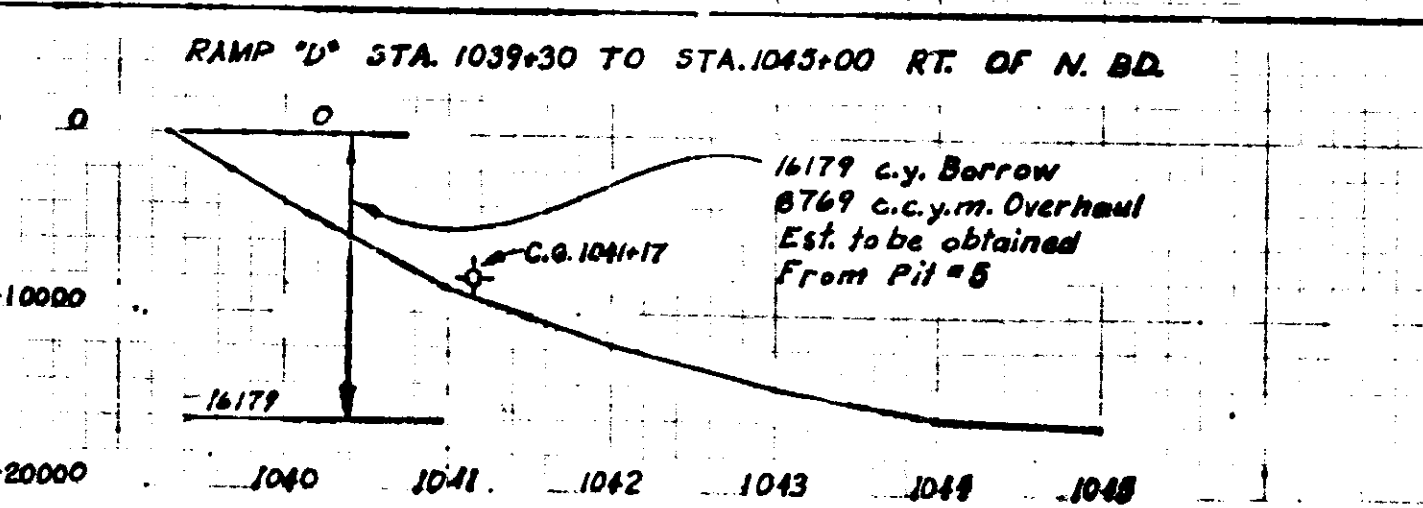
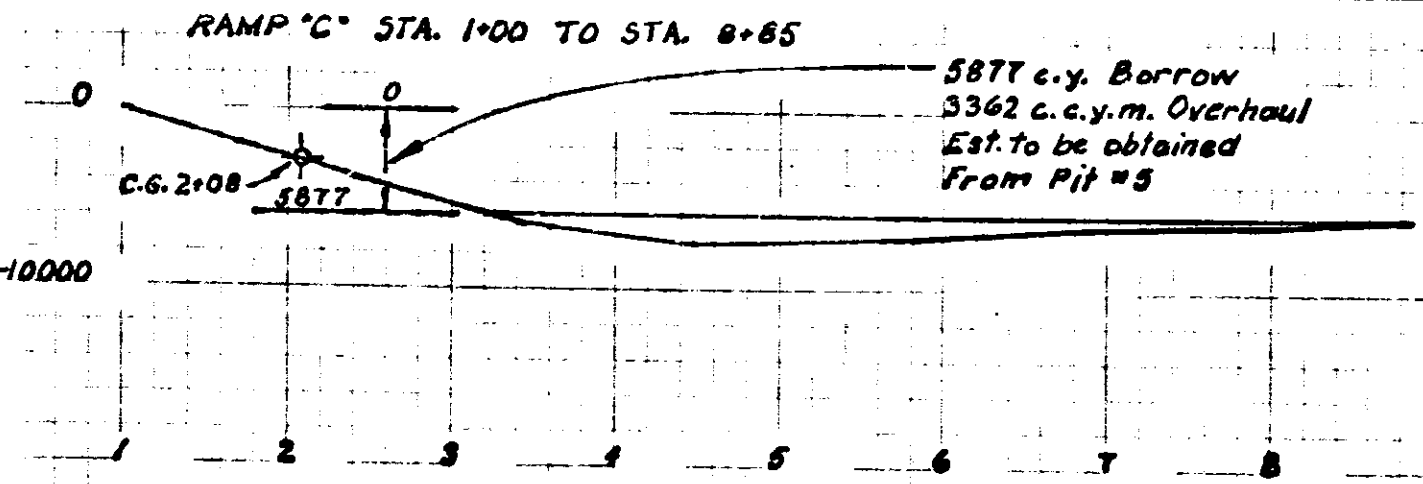
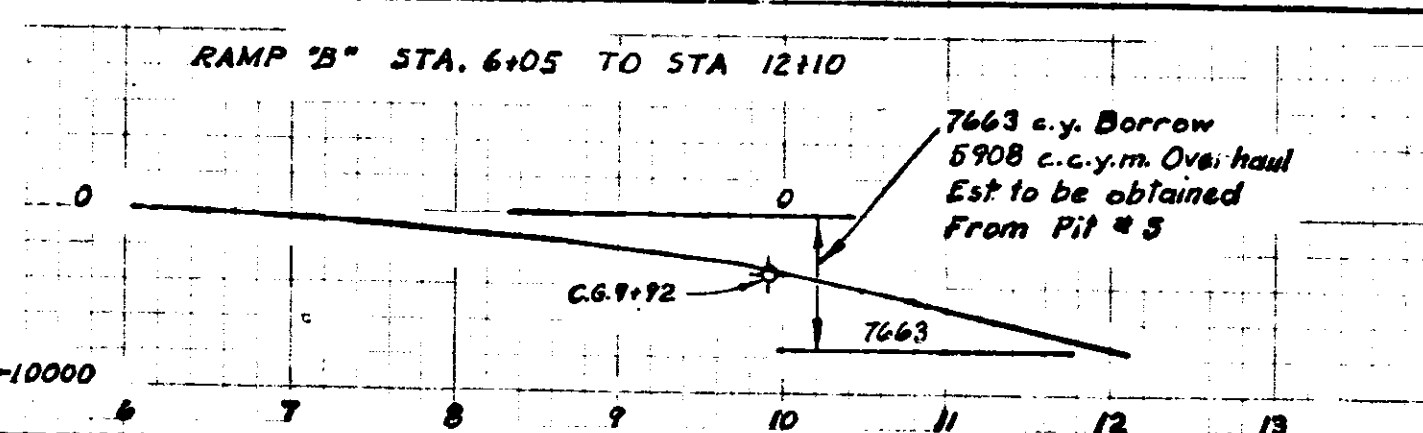
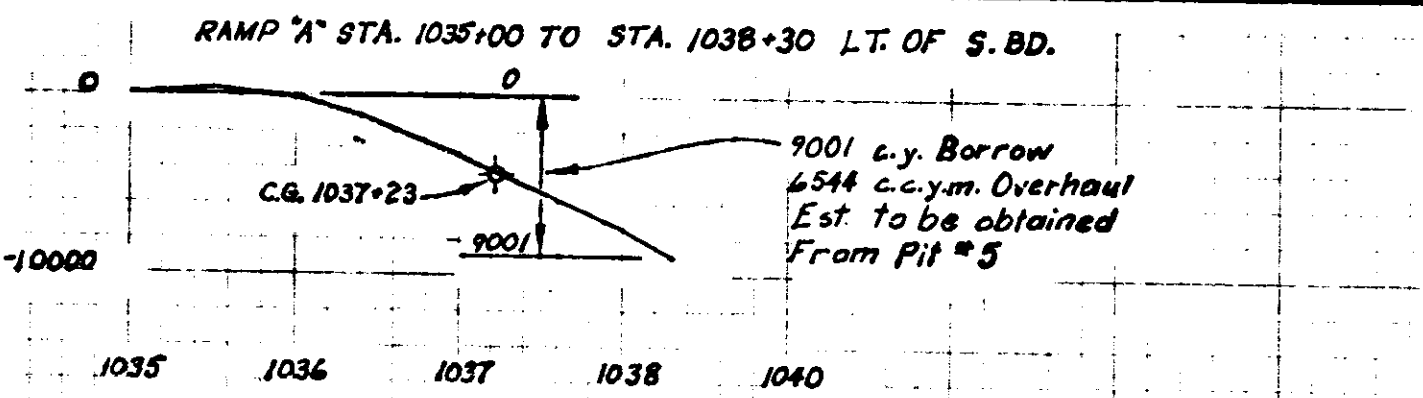
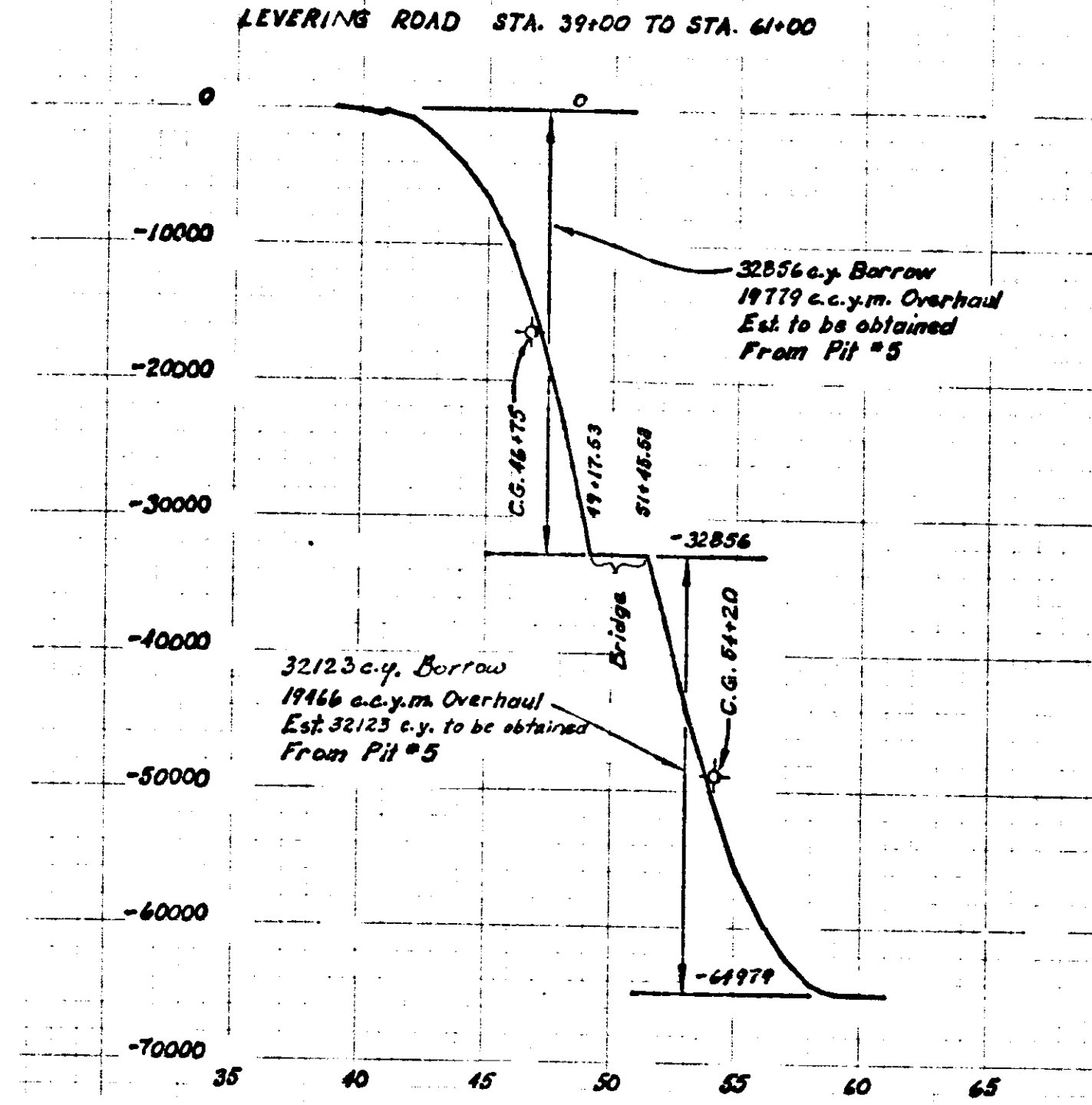
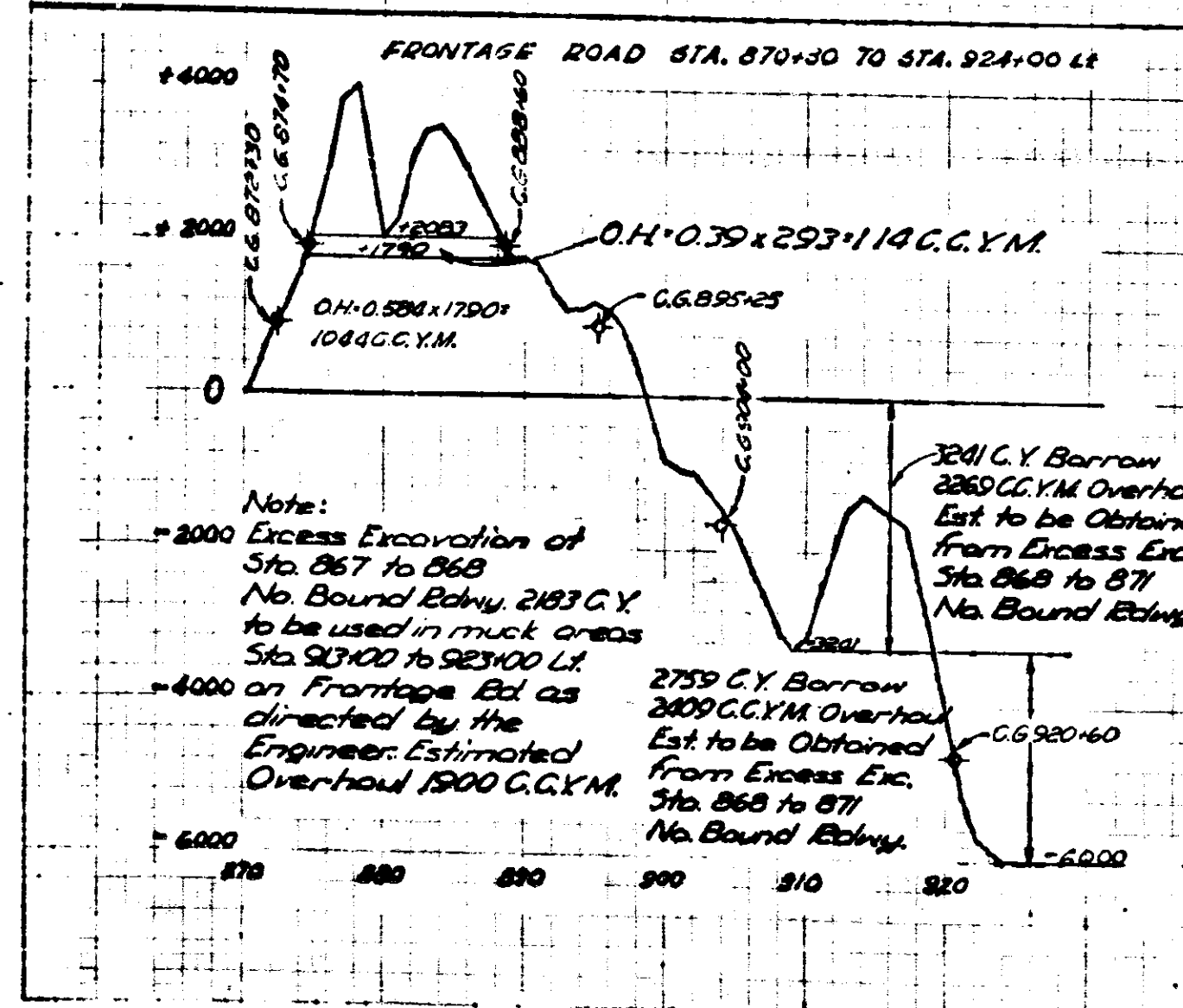
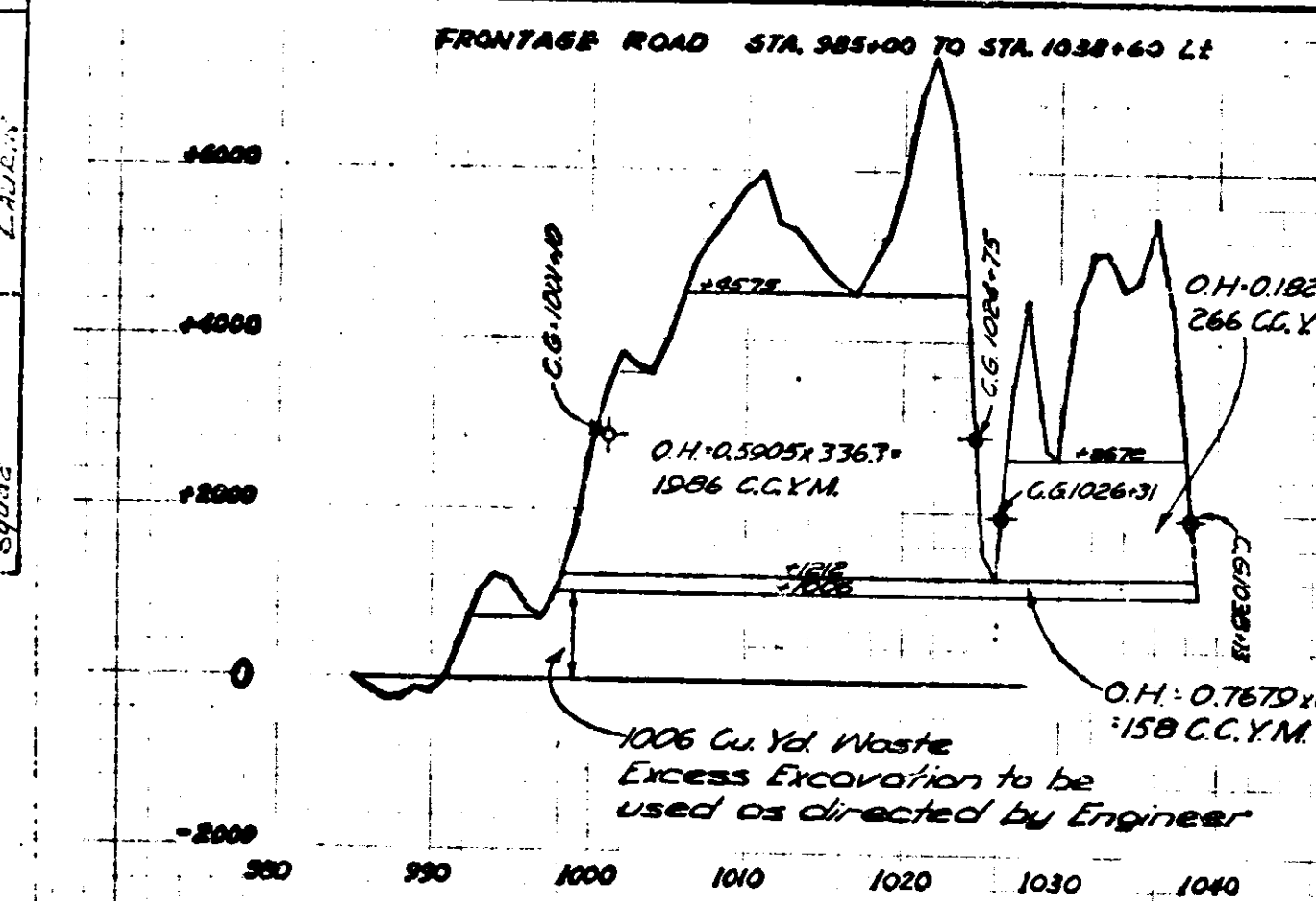
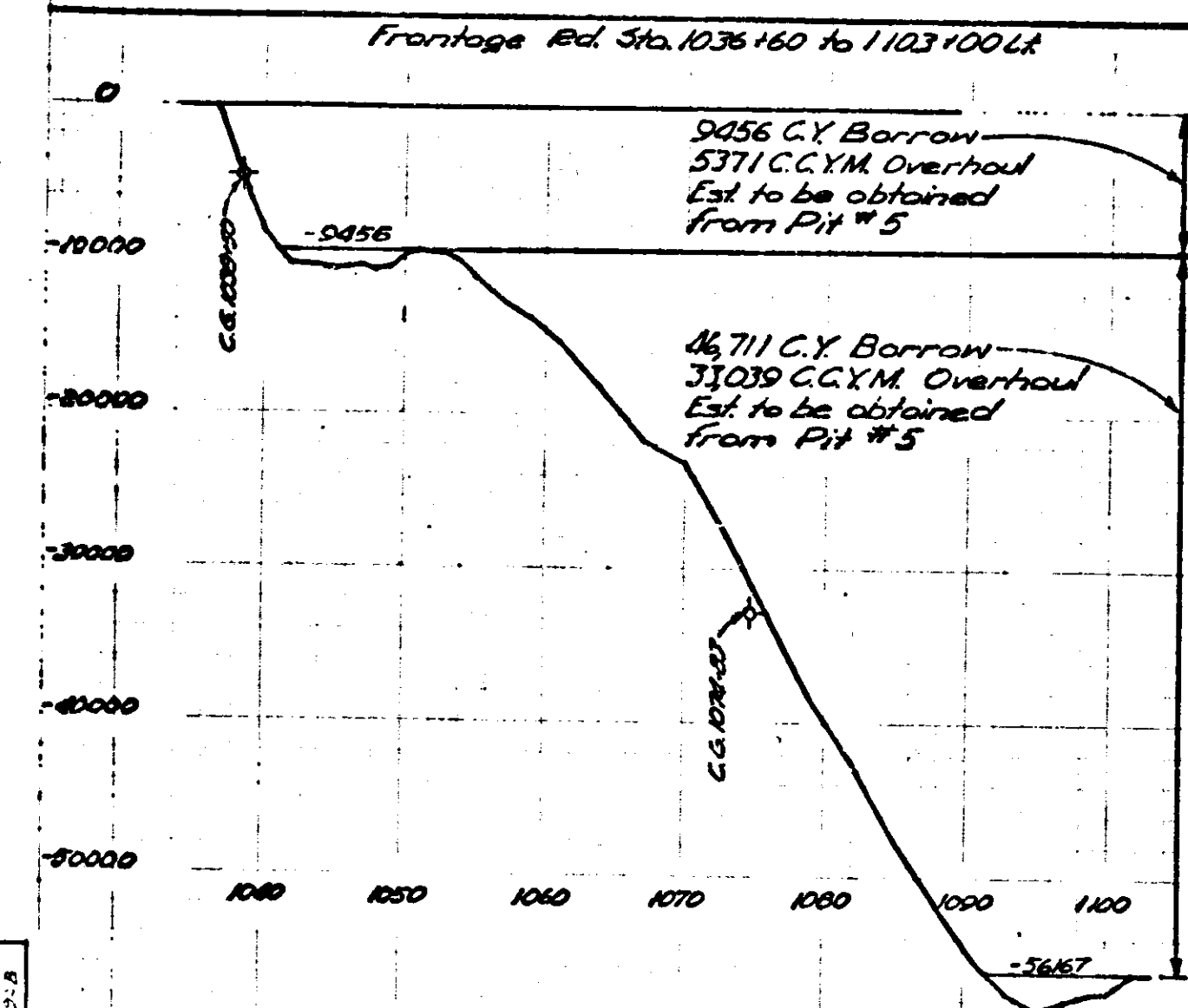
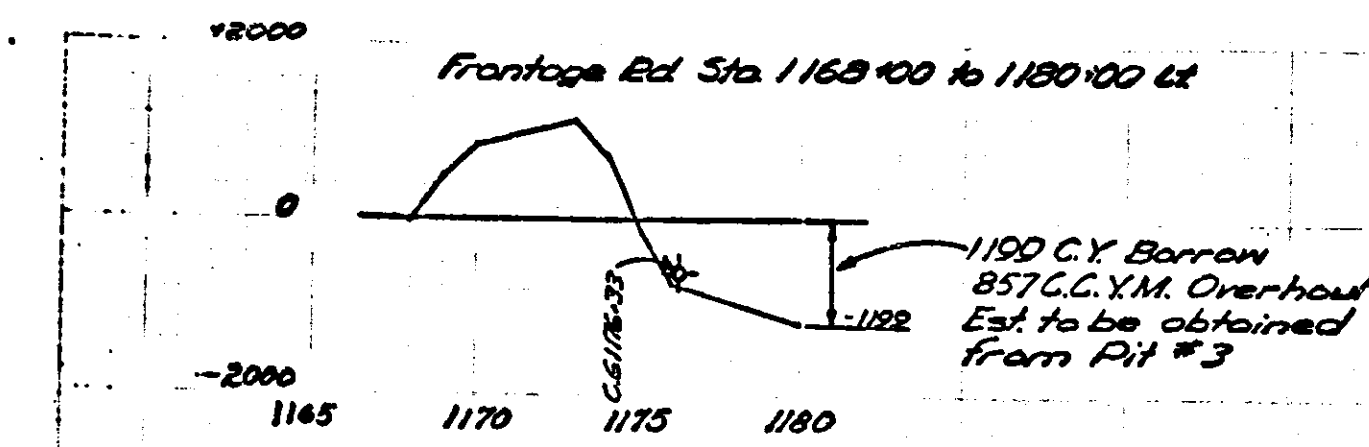
SCALES { **HOR. 1"=1,000 FT.**
VER. 1"=10,000 CU. YDS.



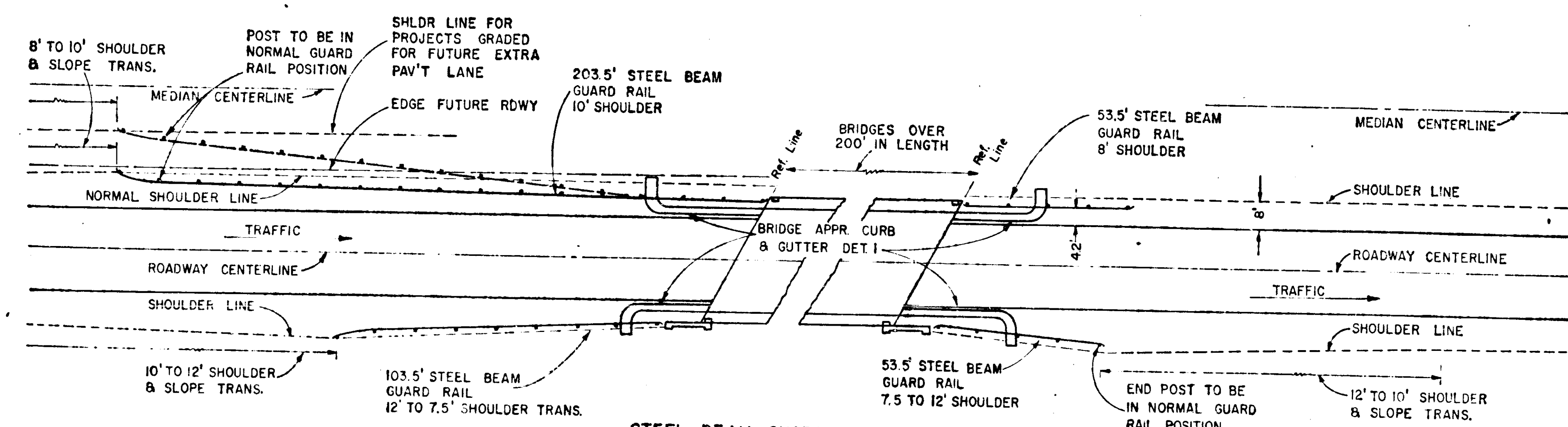
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MASS DIAGRAM

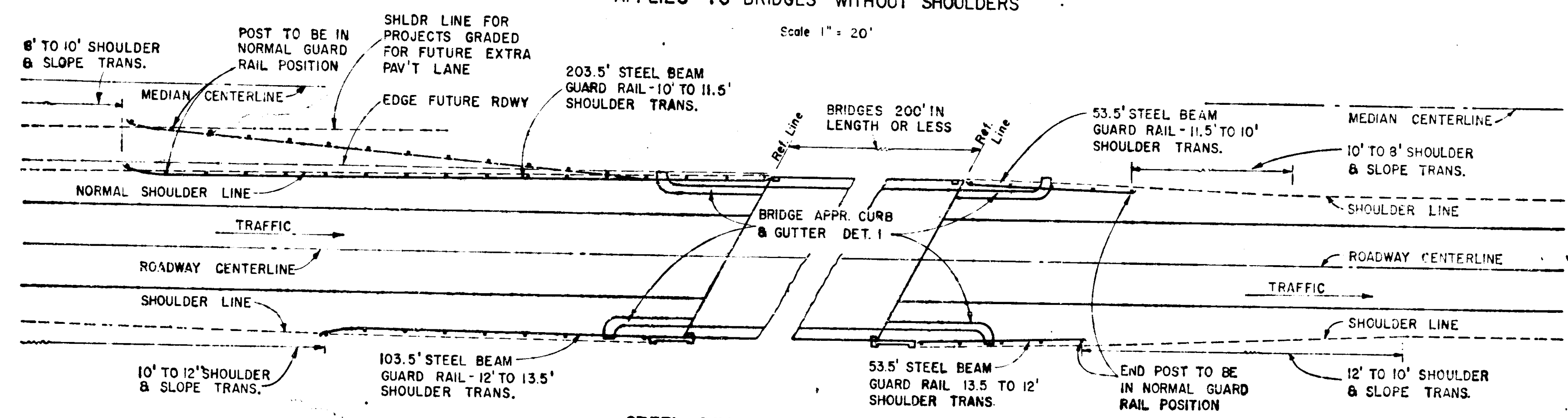


Route	State Proj.	Federal Proj.	Sheet No	Total Sheets
U.S. 27	16092	1-75-5(6)-3/3	35	



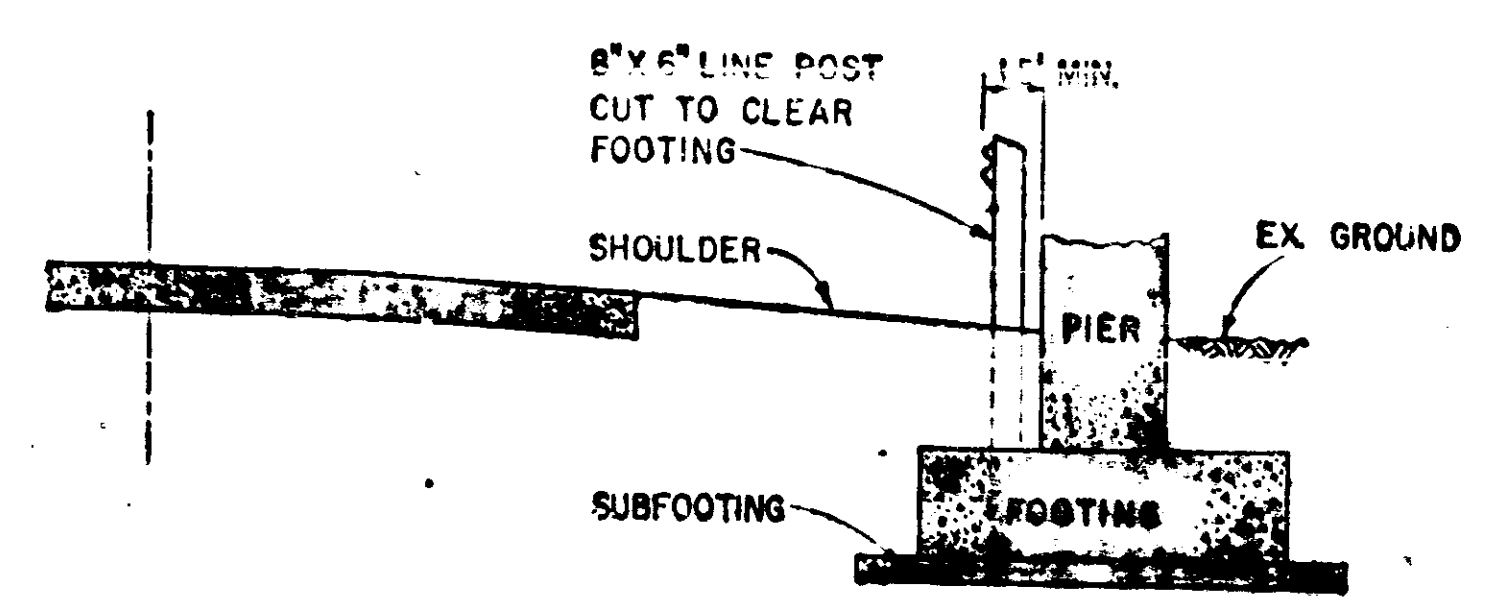
STEEL BEAM GUARD RAIL CONSTRUCTION
AT BRIDGE APPROACHES
APPLIES TO BRIDGES WITHOUT SHOULDERS

Scale 1" = 20'

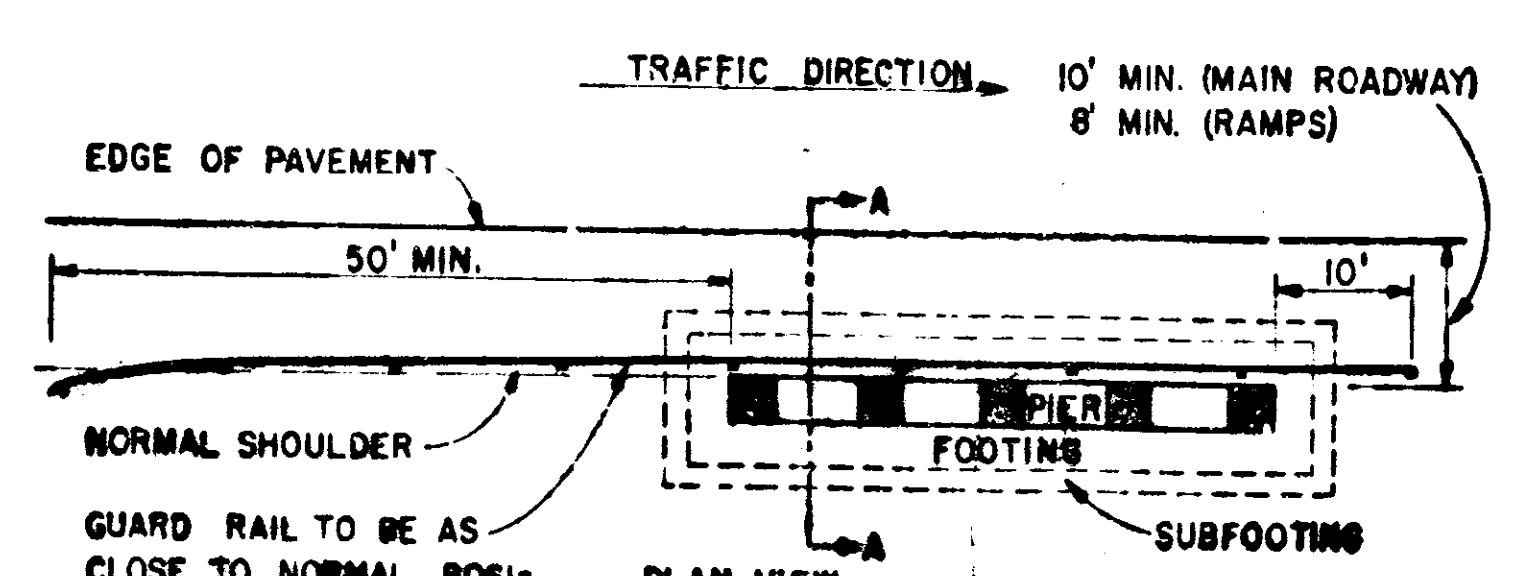


STEEL BEAM GUARD RAIL CONSTRUCTION
AT BRIDGE APPROACHES
APPLIES TO BRIDGES WITH SHOULDERS

Scale 1" = 20'

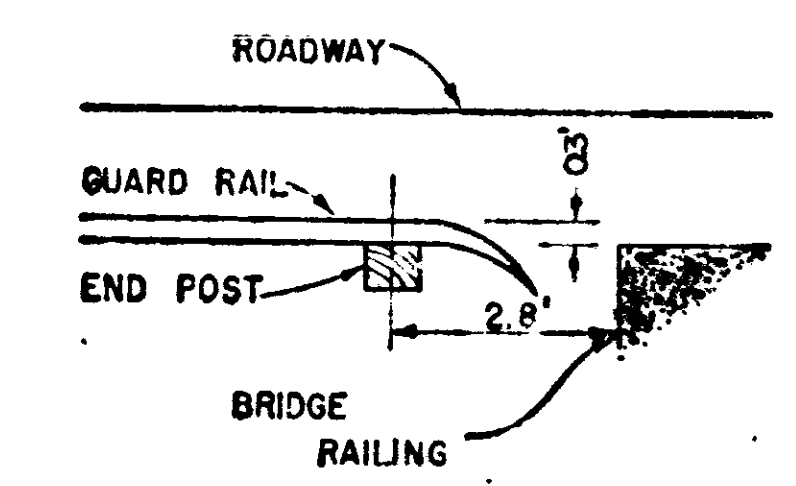


ELEVATION VIEW
SECTION A-A
Scale 1" = 4'0"



DETAIL SHOWING
STEEL BEAM GUARD RAIL PROTECTION AT PIERS
FOR ROADWAY UNDER BRIDGES

Scale 1" = 12'0"



DETAIL SHOWING END POST
FOR ROADWAY OVER BRIDGES

Scale 1/2" = 1'0"

PLAN NOTES:

THE LENGTH OF BRIDGE APPROACH CURB AND GUTTER SHALL BE VARIED TO LOCATE THE SPILLWAY CLEAR OF GUARD RAIL POSTS. THE SPILLWAY SHALL EXTEND TWO FEET BEYOND THE SHOULDER.

WHERE STEEL BEAM GUARD RAIL IS TO BE USED IN THE PROXIMITY OF BRIDGE APPROACH CURB AND GUTTER, THE SHOULDER SHALL BE SLOPED DOWN FROM THE CURB.

THE VERTICAL ALIGNMENT SHALL BE MODIFIED TO LOWER THE RAIL ELEMENT NEAREST THE BRIDGE 0.5' AND A STRAIGHT LINE TRANSITION USED TO THE FIFTH POST FROM THE BRIDGE, AT WHICH POINT THE RAIL ELEMENT SHALL BE NORMAL HEIGHT ABOVE GROUND.

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CURRENT MICHIGAN STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS.

CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD PLAN FOR STEEL BEAM GUARD RAIL.

MICHIGAN STATE HIGHWAY DEPARTMENT STANDARD PLAN FOR LOCATION OF GUARD RAIL AT STRUCTURES	
DESIGN AND TRAFFIC DIVISIONS	2-25-58
CHECKED <i>[Signature]</i>	DATE
RECOMMENDED FOR APPROVAL <i>[Signature]</i>	6-19-58
RECOMMENDED FOR APPROVAL <i>[Signature]</i>	7-10-58
OFFICE OF ENGINEERING AND CONSTRUCTION	
APPROVED <i>[Signature]</i>	6-22-58
APPROVED <i>[Signature]</i>	7-10-58
STATE HIGHWAY DEPARTMENT APPROVAL	
APPROVED JOHN C. MACKIE, STATE HIGHWAY COMMISSIONER	
BY <i>[Signature]</i>	
DRAWN BY <i>[Signature]</i> CHECKED BY <i>[Signature]</i> TRACED BY <i>[Signature]</i> APPROVED B.P.R.	
W-15-1	

QUANTITY SHEET-F

[illegible][illegible]

PLAN ESTIMATE BY V. Hickey & R. Perry DATE Aug. 19, 1958 CHECKED BY Laurin & Fuller DATE Sept. 10, 1958 DATA COMPLETED

DATE _____ HISTORY CHECKED
ENTERED ON PLANS

DATE _____
DATE _____

NO 330 STENCIL	W-15-1	NO 330 STENCIL	NO 330 STENCIL	NO 330 STENCIL
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QUANTITY SHEET-F

[illegible]

[illegible]

16092

W-15-1	STATE PROJECT	FEDERAL PROJECT
	16082	175-50

TOTALS THIS SHEET
TOTALS SHEET #42
TOTALS THIS CONTRACT

W-15-1